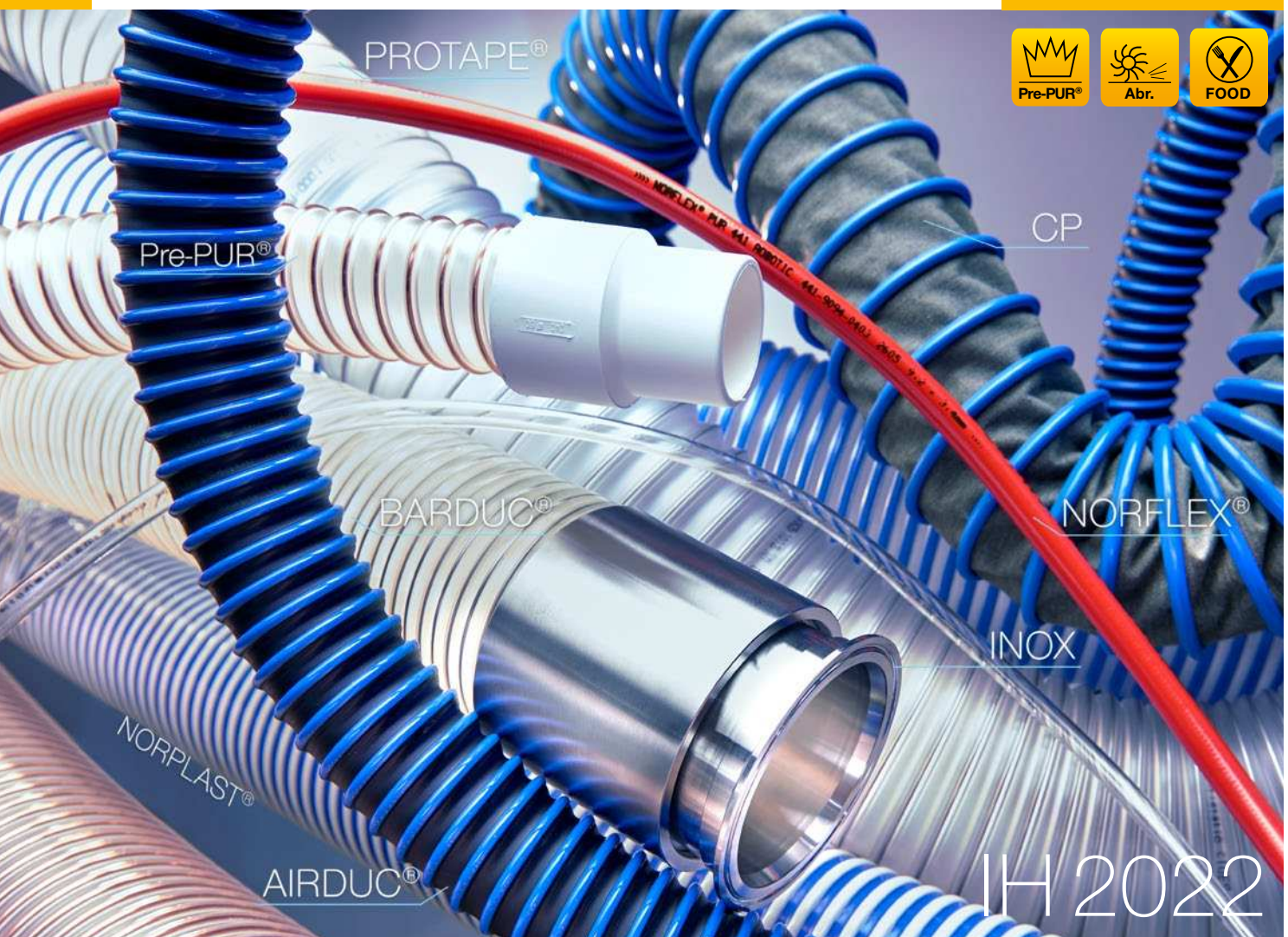


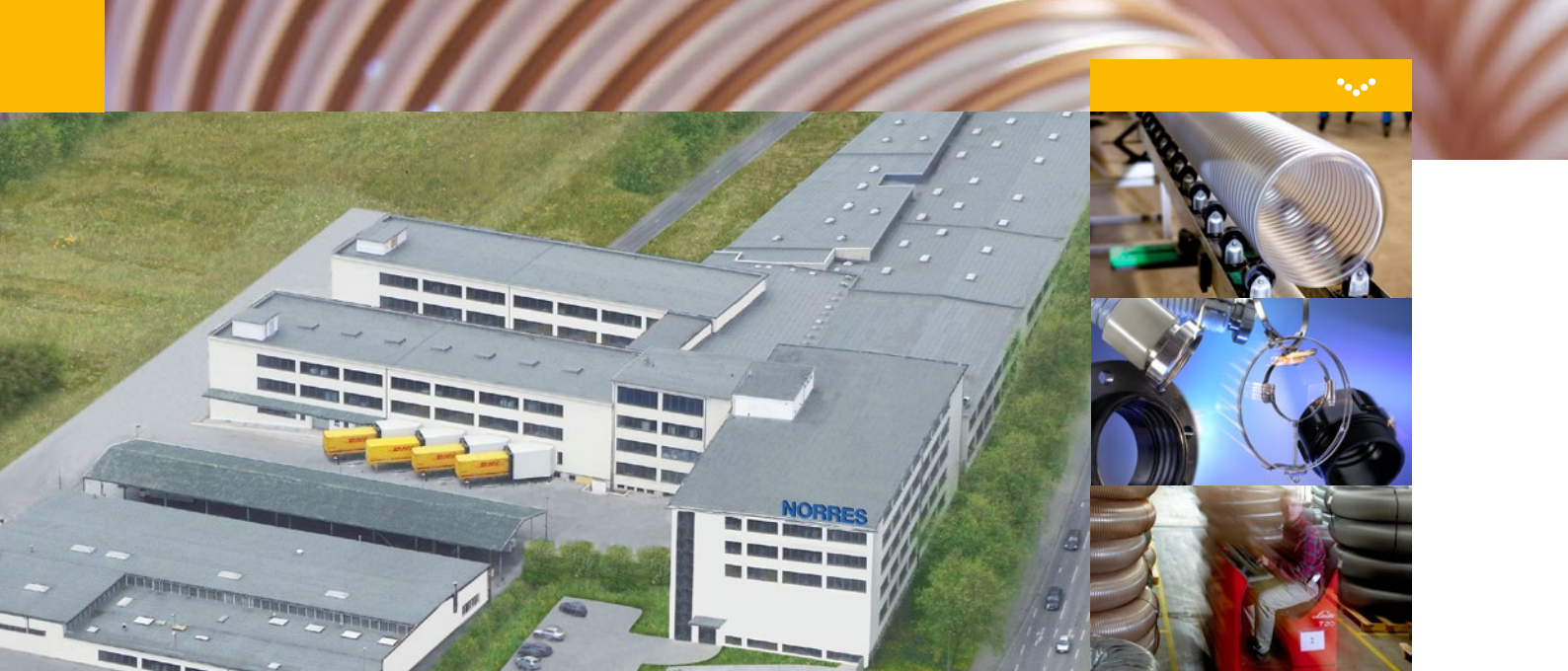
NORRES



NORRES INDUSTRIAL HOSES
HOSES FOR ALL APPLICATIONS.



simply flexible
N
NORRES



NORRES INDUSTRIAL HOSES

HOSES FOR ALL APPLICATIONS.

About us

NORRES Group

NORRES, headquartered in Gelsenkirchen, Germany, is a global player and a leading manufacturer of technical hoses, hose systems and other innovative, high-performance plastic products. With production and sales office locations in the USA, Asia and Europe, NORRES is the trendsetter in constantly developing product and system innovations, many of which are protected by patents or utility models. As a well-established manufacturer with more than 130 years of tradition, NORRES is known for its customised solutions. The objective: NORRES customers save time and money thanks to efficiency and decisive product advantages.

NORRES product portfolio

NORRES offers its customers a comprehensive portfolio of standard products as well as made-to-measure products. NORRES' certification to ISO 9001 in Germany underlies the consistently high standard – from product development through to production to purchasing and logistics. NORRES products comply with a wide range of regulations such as the ATEX Directive, UL approvals, FDA conformity, EU directives and numerous others. Furthermore, NORRES offers convincing solutions in the field of cable protection systems and environmental

technology thanks to the use of high quality plastic materials such as Pre-PUR®. NORRES thus provides a comprehensive and unparalleled product portfolio with future-oriented solutions in the field of plastic hoses. The objective: Reliability, certified quality and a broad spectrum across all product segments.

NORRES innovations

An extremely high level of vertical manufacturing combined with an in-house engineering department with proven expertise in this field is the key qualification and the hallmark of NORRES within the industry. Innovations and standard products are designed to help you solve even the most complex technological challenges. The objective: Further extending our technological leadership to the benefit of our customers.

NORRES services

Know-how, individual consultation and quality are the distinctive features of our services: From consulting and modern logistics through to customer-specific marketing services. NORRES offers impressive performance. The objective: NORRES develops customised service packages that add real value for successful cooperation.

Take advantage of the competence and performance of the market leader in the field of technical hoses and hose systems. NORRES – simply flexible!

NORRES Group – expertise in quality and service

Founded in 1889, NORRES has more than 130 years of experience and tradition. Today, NORRES is a global player and leading manufacturer of technical hoses and hose systems: Highly abrasion proof Pre-PUR® polyurethane hoses, suction and transport hoses from PVC, TPE, PE, EVA, silicone etc., high temperature hoses up to 1,100 °C, electrically conductive and antistatic hoses, connecting elements and accessories, many certified products (e.g. ATEX Directive, EU Directives, FDA compliance, UL approvals and numerous others, customised solutions. NORRES products are available as suction and transport hoses and for transportation of bulk solids in the food and pharmaceutical industry, in agriculture, for mobile and stationary extraction systems, for machines in the wood and plastic industry, for municipal vehicles, as cable protection hose system in the electro-technical area and as energy-saving and long lasting membrane diffuser in sewage plants.

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OPERATIVE

customer portal

24h shipment

Immediate Availability – Instant Delivery service

**24 hour shipment service:**

Products with the NORRES "24 hour" icon leave NORRES or a NORRES branch within the time specified based on the defined wall thickness of the hose.

**48 hours shipment service:**

NORRES ships these products in the below mentioned sizes within 48 hours.

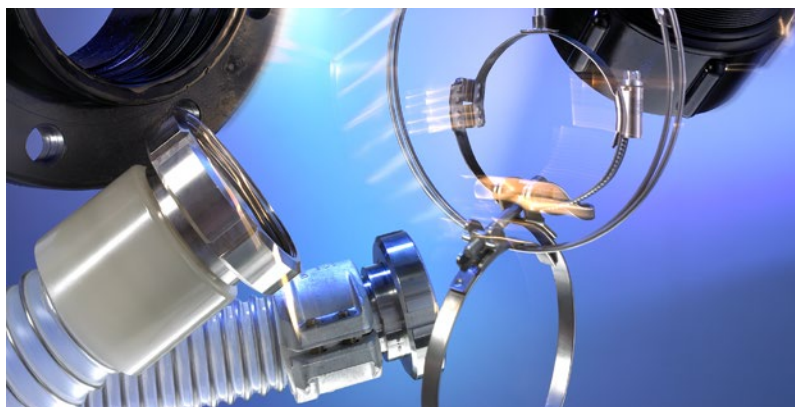
Product	I.D. in / mm	Dimensions in stock m	Icon
PROTAPE® PUR 301 AS (XLD)/or TIMBERDUC® PUR 531 AS (XLD)	2"/ 50-51mm; 2.36"/ 60mm; 3"/ 75-76mm; 80mm; 3.5"/ 89-90mm; 4"/ 100-102mm; 5"/ 125-127mm; 6"/ 150-152mm; 8"/ 200-203mm; 250mm; 300mm	10	
PROTAPE® PUR 330 AS (LD)/or TIMBERDUC® PUR 532 AS (LD)	40mm; 2"/ 50-51mm; 2.36"/ 60mm; 3"/ 75-76mm; 80mm; 4"/ 100-102mm; 4.72"/ 120mm; 5"/ 125-127mm; 5.5"/ 140mm; 6"/ 150-152mm; 6.3"/ 160mm; 8"/ 200-203mm	10	
AIRDUC® PUR 350 AS (MD)/or TIMBERDUC® PUR 533 AS (MD)	40mm; 2"/ 50-51mm; 2.36"/ 60mm; 70mm; 3"/ 75-76mm; 80mm; 4"/ 100-102mm; 4.72"/ 120mm; 5"/ 125-127mm; 5.5"/ 140mm; 6"/ 150-152mm; 6.3"/ 160mm; 8"/ 200-203mm; 250mm; 300mm	10	
AIRDUC® PUR 355 AS (HD)	1"/ 25mm; 1.25"/ 32mm; 1.5"/ 38mm; 40mm; 2"/ 50-51mm; 2.36"/ 60mm; 2.5"/ 63-65mm; 70mm; 3"/ 75-76mm; 80mm; 4"/ 100-102mm; 6"/ 150-152mm	10	
AIRDUC® PUR 356 AS (XHD)	40mm; 1.75"/ 44-45mm; 2"/ 50-51mm; 2.36"/ 60mm; 2.5"/ 63-65mm; 3"/ 75-76mm; 80mm; 3.5"/ 89-90mm; 4"/ 100-102mm; 5"/ 125-127mm; 6"/ 150-152mm	10	
PROTAPE® PVC 371 *	3"/ 75-76mm; 80mm; 4"/ 100-102mm; 5"/ 125-127mm; 6"/ 150-152mm; 6.3"/ 160mm; 7"/ 178-180mm; 8"/ 200-203mm; 10"	10	
NORPLAST® PUR 385 AS *	20mm; 1"/ 25mm; 30mm; 1.25"/ 32mm; 1.36"/ 35mm; 1.5"/ 38mm; 40mm; 1.75"/ 44-45mm; 2"/ 50-51mm; 2.36"/ 60mm; 2.5"/ 63-65mm; 70mm; 3"/ 75-76mm; 80mm; 3.5"/ 89-90mm; 4"/ 100-102mm; 110mm; 4.72"/ 120mm; 5"/ 125-127mm; 130mm; 5.5"/ 140mm; 6"/ 150-152mm	10 20	
AIRDUC® TPE 363 (MD)	1.5"/ 38mm; 40mm; 2"/ 50-51mm; 2.36"/ 60mm; 3"/ 75-76mm; 80mm; 4"/ 100-102mm	10	
SIL 391 TWO	1"/ 25mm; 1.5"/ 38mm; 1.75"/ 44-45mm; 2"/ 50-51mm; 2.5"/ 63-65mm; 3"/ 75-76mm; 80mm; 3.5"/ 89-90mm; 4"/ 100-102mm	4	
EVA 373 AS	1"/ 25mm; 1.25"/ 32mm; 1.36"/ 35mm; 1.5"/ 38mm; 40mm; 1.75"/ 44-45mm; 2"/ 50-51mm; 2.36"/ 60mm	30	
CP 450 - 487	1.5"/ 38mm; 40; 2"/ 50-51mm; 2.36"/ 60mm; 2.5"/ 63-65mm; 3"/ 75-76mm; 80mm; 3.5"/ 89-90mm; 4"/ 100-102mm; 110mm; 4.5"/ 114-115mm; 4.72"/ 120mm; 5"/ 125-127mm; 5.5"/ 140mm; 6"/ 150-152mm; 6.3"/ 160mm; 170mm; 7"/ 178-180mm; 8"/ 200-203mm; 225mm; 250mm; 300mm; 350mm; 400mm; 450mm; 500mm; 600mm; 700mm; 800mm; 900mm; 1000mm	3 6	

* a product of the PROTAPE 371 series/NORPLAST PUR 385 series.

Assembly services

**48 hours assembly service:**

NORRES assembles the items marked with the "48 hour" icon within this time frame (max. of 10 pieces per order).



Modern logistics Quality mobile

Service Approach Branch Categories

EXCELLENCE

Converter 48h assembly App

Always there for you – at norres.com

- The NORRES Website – Product information und stock enquiry in real-time
- The NORRES Shop – NORRES customers are able to order their products conveniently via online store
- The NORRES Hose Finder – Filter by means of i.e. conveying medium, properties, area of application, etc. your suitable product directly on the product overview pages
- The NORRES Service principle: We keep our promise – despatch within 24 hours from our NORRES sites, 48 hours assembly time – for selective products and product lines



NORRES – always up-to-date

Direct access to the product page via QR code - Here you will find:

- All applications, properties and delivery variants at a glance
- Availability
- Certificates, approvals and declarations of conformity
- Assembly information and installation guidelines
- All common dimensions and lengths at a glance
- Technical specifications such as pressure, bending radius and weight
- Suitable accessories
- ... and of course: Always up-to-date



NORRES – services for our customers

- Expert advice and Quality
- Modern logistic concepts (e.g. dropshipping)
- Efficient service packages for customer-specific concepts with sales value
- Specialist custom made solutions for all types of hoses to meet customer requirements
- Extensive product range for all industries
- Assembly service for numerous connecting elements and couplings



NORRES – Technical online

Icons Constructions Technical videos



Technical information:

- CE certification
- Ingress Protection
- Thread standards
- Food regulatory approvals
- Standards and regulations
- VDA listing
- Electrical characteristics
- Electrostatic charging data
- TRGS 727 FAQ
- Pressure loss data
- Pressure ratings
- Cut length and assembly information
- Nominal diameters diagram
- Installation guidelines
- Chemical resistance table
- Technical terms and definitions
- Loss of strength at higher temperatures
- Material data sheets (incl. Matrix – Technical data)



Pre-PUR®: NORRES uses a special polyurethane mixture for several of its hoses that sets them apart from the majority of commercially available products as follows:

- Increased material strength
- Higher abrasion resistance
- Improved chemical resistance
- Higher softening points
- Increased heat resistance
- Increased flexibility at low temperatures



Antistatic and electrically conductive hoses: According to the new ATEX Directive, hoses with a discharge-capable (antistatic $<10^9 \Omega$) or electrically conductive ($<10^3 \Omega$ to $<10^6 \Omega$) wall should be used for combustible bulk materials as well as in hazardous areas. Please comply with all relevant regulations and standards and refer to the Technical Appendix for more details.



Medium: With our new icon "media" you can select the correct hose for any application at a glance. This icon "media" will help distinguish between different media such as vapors, liquids, dust and heavy abrasives. This innovative icon enables customers to easily select the correct hose or system for their application.



Abrasion resistant: NORRES hoses with this symbol have been specially developed to transport very abrasive media while maintaining a long service life.

- Precise construction for optimal strength reinforcement
- Specific materials chosen to provide superior material strength and abrasion resistance



Special wire adhesion: Hoses manufactured using our special, highly advanced, multi-stage adhesion process are marked with this symbol. The exceptionally long service life realised with these products – even when subjected to severe combined loads – would otherwise remain unattainable.



Crush resistant: NORRES hoses with this symbol are able to resist crushing either partially or completely when driven over or stepped on.

- good recovery properties



Cut lengths: NORRES provides excellent service to customers which includes cutting services on many NORRES hose products that are in stock. This added benefit can be utilized for a small fee to provide you with the hose length that suits your needs when production time is not an option.



Vapors:
This hose is suitable for air and fumes.

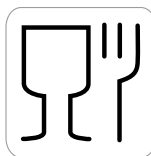


Dust:
This hose is suitable for transfer of dust and powders.



Smooth interior: NORRES hoses bearing this icon have optimal flow properties and offer the following advantages:

- Very high delivery rate
- Low pressure loss (reduced blower power and lower operating costs)
- Gentler material transport
- Low wear and therefore longer service life



Glass/fork symbol: NORRES hoses bearing this symbol have been issued with an official approval from an independent testing institute for use in food applications in accordance with the EU Directive.



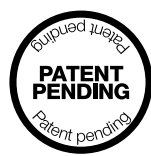
Liquids:
This hose is suitable for liquid transfer.



Abrasives:
This hose is suitable for the movement of abrasive media such as chips, shavings and grains.



High flexibility: This symbol is only used for NORRES hoses that require minimal force to flex.



Patent pending: Many NORRES hoses and hose systems are in the process of an patent application. This icon shows NORRES' continued effort to assist its partners and customers with unique products and solutions in the field of technical hoses in the future.



Microbe-resistant: Not all plastics withstand microbes. This is a critical element for extended contact with soil, organic substances or heavy contamination in conditions favorable to microbe growth. The chemical structure of this material is modified for resistance to microbial attack.



Patented: NORRES is one of the leading trendsetters and manufacturer of high quality technical hoses. A variety of NORRES hoses and systems have internationally registered patents. These products are marked with the NORRES "Patented Icon" providing NORRES customers unique products and solutions in the technical hose field. Customers can easily identify these hoses at a glance with this icon.

Abbreviations:

XLD	=	super-light
LD	=	light
MD	=	medium-heavy
HD	=	heavy
XHD	=	super-heavy
XXHD	=	extremely heavy
AS	=	antistatic
EC	=	electrically conductive
HT	=	high temperature
FOOD	=	food safe
INOX	=	stainless steel spiral



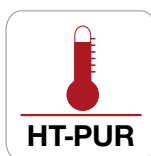
Approvals for use with foodstuffs: NORRES hoses with this symbol have one or more national and/or international approvals and certificates of conformity that allow them to be used in food applications.



Permanently antistatic: Thanks to a novel, innovative material from NORRES, all hoses marked with this symbol are permanently antistatic ($<10^9 \Omega$).



Flame retardant: NORRES hoses with the flame retardant icon have one or more national and/or international approvals classifying them as flame retardant or self-extinguishing.



HT-PUR: Pre-PUR® is improved even further with an innovative and patented process that increases the heat resistance and life of the hose.



Partially coloured: Thanks to our patented production method, transparent hoses can be manufactured with a colour stripe along the helix in a specified color. Strengthen your market position by utilising your corporate colours.



Phthalate-free: NORRES hoses with this symbol are 100% free of phthalates and softener.



Pre-PUR®

makes the difference

Polyurethanes are not all the same!

As with all raw materials and finished goods, there are large differences in quality here as well.

For many of its hoses, NORRES uses a special mixture called Pre-PUR®, containing an ester-polyurethane or an ether-polyurethane. Compared to many other plastics, rubber formulations and “simple” polyurethanes, the block copolymers, which consist of hard and soft Pre-PUR® segments, have superior properties. The hard segments of Pre-PUR® provide extremely high mechanical stability, while at the same time the soft segments give the material high flexibility and dynamic load capacity.

Our hoses made from Pre-PUR® raw materials differ as follows from many of the hoses commercially available:

- NORRES Pre-PUR® consists of special and high-quality, premium ester- and ether-polyurethanes.
Choosing a polyurethane just one level of quality lower can cause a reduction of more than 30% in abrasion resistance.
The use of high-purity raw materials and a narrow tolerance range ensure a high level of quality.
 - excellent mechanical stability
 - low abrasion
 - excellent chemical and hydrolytic resistance
- NORRES Pre-PUR® has extremely long molecular chains (high molecular weight and a lot of crystalline domains and morphology). During chemical, hydrolytic and thermal degradation, molecular chains are generally shortened as a result of chain scission. Consequently, longer molecular chains generally result in longer service life. The length of the molecular chains is also a determining factor in the softening point of a hose. Thus products made from Pre-PUR® have above average residual strength when subjected to heat, while at the same time demonstrating better flexibility at low temperatures.
 - improved chemical and hydrolytic stability
 - higher softening points
 - greater residual strength at high temperatures
 - higher compression strength
 - greater safety due to material stability
 - better hot air aging properties
 - better low temperature flexibility
 - lower “bending force” when cold
 - lower risk of bending fracture at low temperatures

- NORRES Pre-PUR® contains special stabilisers for hose technology, developed in partnership with our raw material suppliers. Without these additives, hoses generally are more vulnerable to chemical, hydrolytic and thermal attack and occasionally wear out significantly faster.

- improved chemical and hydrolytic stability
- improved oxidation resistance
- better hot air aging properties
- improved resistance to weathering

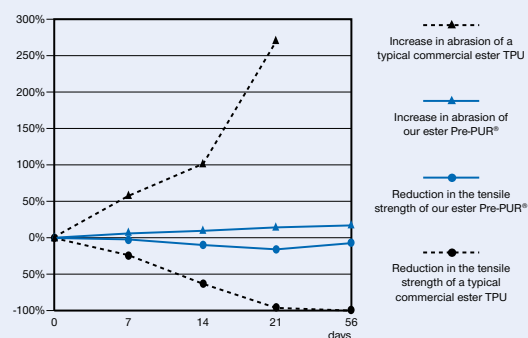
The ether-polyurethane Pre-PUR® used in many of our hoses has the following advantages over ester-polyurethane Pre-PUR® (and also over other ester-polyurethanes):

- Resistant to microbes
This is critical for extended contact with soil or similar substances or heavy contamination under conditions favourable to microbes. The chemical structure of ether-polyurethanes gives the materials permanent resistance to microbial attack. We believe this is clearly a better solution than ester-polyurethanes that are often stabilized with for health not completely harmless additives for this purpose. With these ester-polyurethanes there is a risk that the additive will leach out, causing the level to fall below that required for protection as the additive migrates to the surface of the hose and comes in contact with the user and the material transported.
- Resistant to hydrolysis
This is critical for wet or humid applications at higher temperatures and for use in tropical climates.
- Its chemical stability is far superior to ester-polyurethanes
- Its flexibility at low temperatures is superior to comparable ester-polyurethanes

In summary:

- longer service life
- greater safety
- significant added value and greater benefits

Ester Pre-PUR® versus Ester-TPU

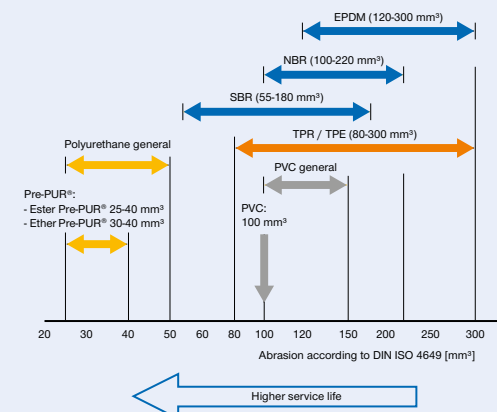


An example of stability:

Our high-quality Pre-PUR® raw materials with special stabilizers demonstrate considerably better stability and significantly longer service life than can be obtained with many other products.

An appropriate measure of this is hydrolysis testing in water at 80°C, since the mechanism of chemical degradation of polyester-polyurethane is frequently hydrolysis of the polyester chains. Our ester Pre-PUR® is shown in Figure 1, compared with an other typical commercial ester TPU.

Abrasion resistance



Example of abrasion resistance:

According to standard tests, the abrasion resistance of our Pre-PUR® polyurethanes is about two and a half to five times higher than for many rubber raw materials and about three to four times higher than for many soft PVC's (measured at 20°C). In applications, the differences are frequently even greater, because the excellent damping and impact resilience of Pre-PUR® polyurethanes does not come into play with the standard test method.

Food and Pharma

Silo, silo vehicle/ silo truck, tanker/ tank truck: Conveying of dry foods, e.g. rice, cereals, sugar, milk powder, powders, coffee, tea, grains, flour, frozen foods

Recommended by NORRES customers:

AIRDUC® PUR-INOX 356 FOOD-AS (XHD)

Proven Alternatives:

AIRDUC® PUR 356 FOOD (XHD)

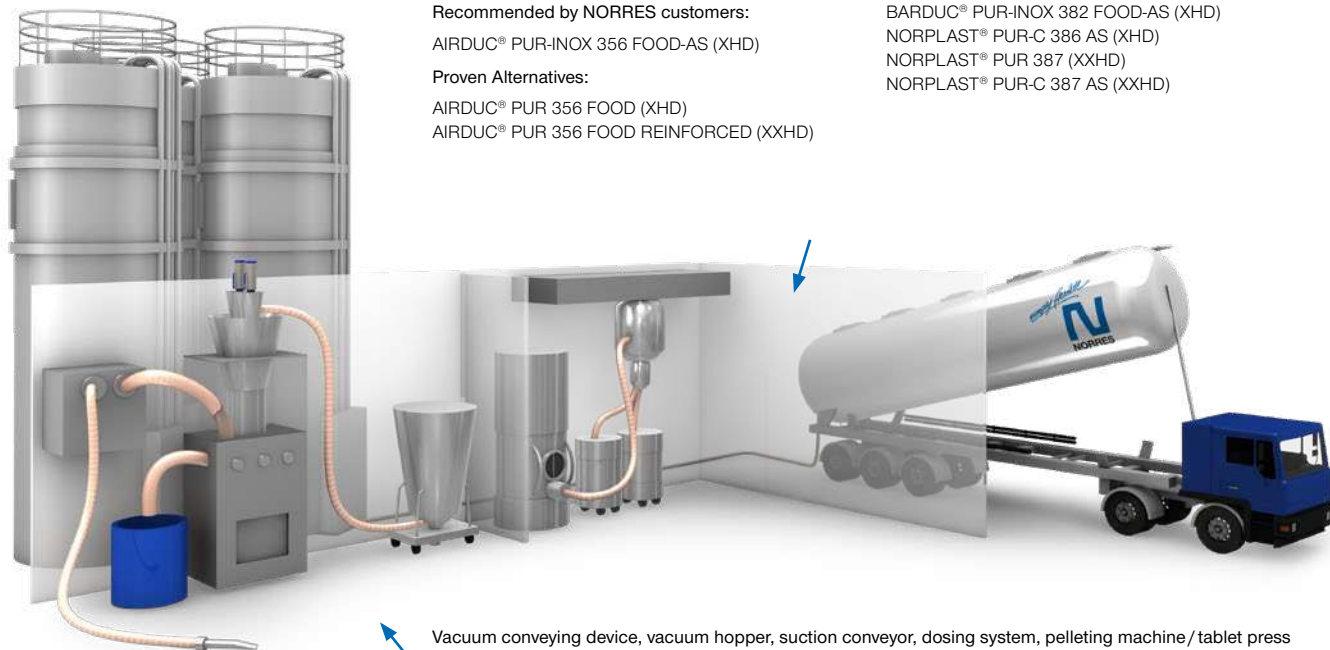
AIRDUC® PUR 356 FOOD REINFORCED (XXHD)

BARDUC® PUR-INOX 382 FOOD-AS (XHD)

NORPLAST® PUR-C 386 AS (XHD)

NORPLAST® PUR 387 (XXHD)

NORPLAST® PUR-C 387 AS (XXHD)



Vacuum conveying device, vacuum hopper, suction conveyor, dosing system, pelleting machine/ tablet press

Recommended by NORRES customers:

AIRDUC® PUR-INOX 355 FOOD-AS (HD)

Proven Alternatives:

AIRDUC® PUR 351 FOOD (MD)

AIRDUC® PUR-INOX 351 FOOD-AS (MD)

AIRDUC® PUR 355 FOOD (HD)

AIRDUC® PUR 356 FOOD (XHD)

AIRDUC® PUR-INOX 356 FOOD-AS (XHD)

BARDUC® PUR-INOX 382 FOOD-AS (XHD)

BARDUC® PVC 381 FOOD (HD)



Mixer, dryer, packaging machine, bulk-bag (big bag)-charging and discharging, mill

Recommended by NORRES customers:

PROTAPE® PUR-C 335 FOOD-AS FLAT

AIRDUC® PUR-INOX 355 FOOD-AS (HD)

Proven Alternatives:

CP PUR 455 FOOD

PROTAPE® PUR 330 FOOD (LD)

AIRDUC® PUR 350 FOOD-AS (MD)

AIRDUC® PUR 351 FOOD (MD)

AIRDUC® PUR-INOX 351 FOOD-AS (MD)

AIRDUC® PUR 355 FOOD (HD)

AIRDUC® PUR 356 FOOD (XHD)

AIRDUC® PUR-INOX 356 FOOD-AS (XHD)

AIRDUC® PE 362 FOOD (MD)

CP PTFE-INOX 475 FOOD



Raw material processing

Silo, silo vehicle/ silo truck, tanker/ tank truck: Silo charging, silo discharging

Recommended by NORRES customers:

AIRDUC® PUR 356 AS (XHD)
NORPLAST® PUR-C 386 AS (XHD)

Proven Alternatives:

AIRDUC® PUR 356 FOOD (XHD)
AIRDUC® PUR-INOX 356 FOOD-AS (XHD)

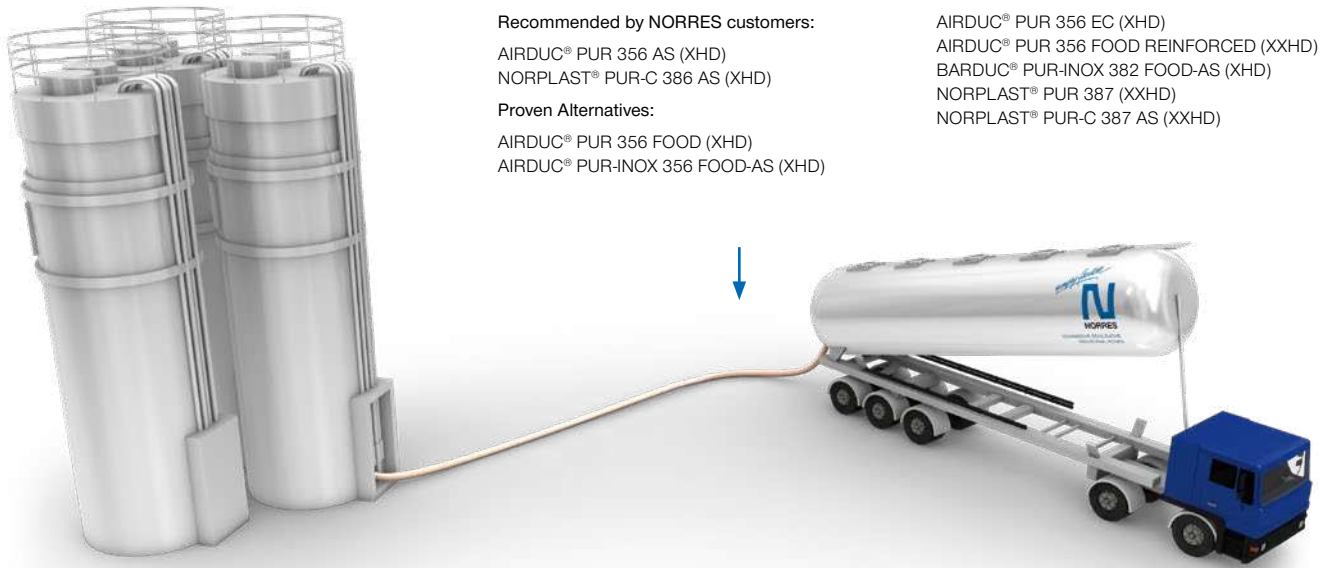
AIRDUC® PUR 356 EC (XHD)

AIRDUC® PUR 356 FOOD REINFORCED (XXHD)

BARDUC® PUR-INOX 382 FOOD-AS (XHD)

NORPLAST® PUR 387 (XXHD)

NORPLAST® PUR-C 387 AS (XXHD)



Screening machine/ sifting machine,
vibration screening machine, tumbler
screening machine, plansifter, windsifter

Recommended by NORRES customers:

PROTAPE® PUR-C 335 FOOD-AS FLAT

Proven Alternatives:

PROTAPE® PUR 301 AS (XLD)
PROTAPE® PUR 330 AS (LD)
PROTAPE® PUR 330 FOOD (LD)
PROTAPE® PUR-INOX 330 FOOD-AS (LD)



Vehicle exhaust gas system

Vehicle exhaust gas extraction system: Hose reel, floorgrid and underfloor extraction system

Recommended by NORRES customers:

PROTAPE® TPE 326 MEMORY

Proven Alternatives:

PROTAPE® TPE 325 WEAR STRIP

CP HYP 450 PROTECT

CP ARAMID 461 PROTECT

CP HiTex 481



Engine test bench, exhaust gas measurement

Recommended by NORRES customers:

CP HiTex 481

CP Kapton® 476

CP HiTex 486

CP HiTex 483

Proven Alternatives:

CP HiTex 485

CP HiTex 487



Automotive/ Vehicle industry

Industrial robot, robotic, welding equipment, welding robot, welding gun: Welding spot resistant hose, hose for dresspack for media as water and air

Recommended by NORRES customers:

NORFLEX® PUR 441 ROBOTIC

Proven Alternatives:

NORFLEX® PUR 401 WELDING



Plastics industry

Silo, silo vehicle/ silo truck, tanker/ tank truck:
Silo charging, silo discharging

Recommended by NORRES customers:

AIRDUC® PUR 356 AS (XHD)

NORPLAST® PUR-C 386 AS (XHD)

Proven Alternatives:

AIRDUC® PUR 356 FOOD REINFORCED (XXHD)

Conveying of granulates and powders: Granulate conveying device, vacuum hopper / conveyor, suction conveyor, dosing system, bulk-bag (big bag)-charging and discharging, shredder, mill, extruder, injection moulding machine

Recommended by NORRES customers:

AIRDUC® PUR 355 AS (HD)

AIRDUC® PUR 355 AS WEAR STRIP (HD)

BARDUC® PVC 381 FOOD (HD)

NORPLAST® PVC-CU 384 AS (HD)

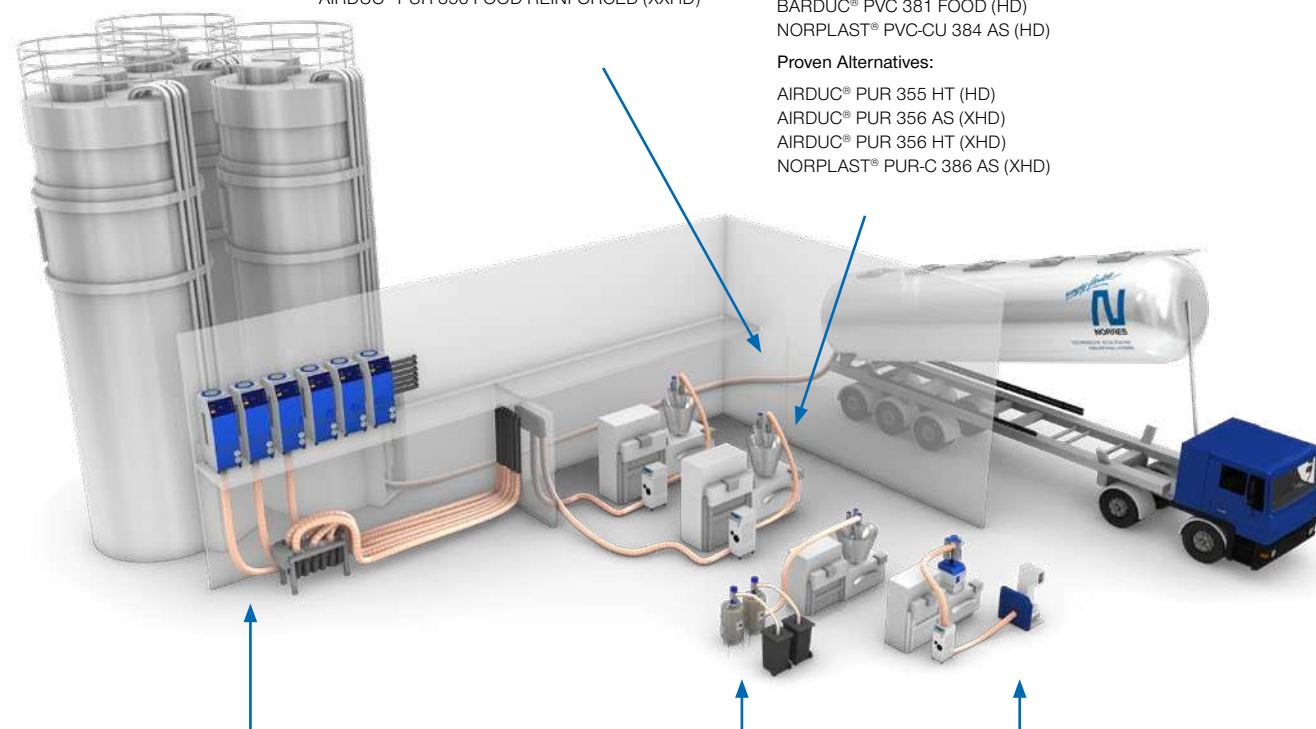
Proven Alternatives:

AIRDUC® PUR 355 HT (HD)

AIRDUC® PUR 356 AS (XHD)

AIRDUC® PUR 356 HT (XHD)

NORPLAST® PUR-C 386 AS (XHD)



Granulate/ plastic dryer, hot air dryer

PROTAPE® TPE 321 REINFORCED (LD)

AIRDUC® TPE 363 (MD)

NEO 390 ONE

NEO 390 TWO

SIL 391 ONE

SIL 391 TWO

Injection moulding tool cooling,
cooling water supply

NORFLEX® PUR 441 FOOD

NORFLEX® PUR 441 ROBOTIC

NORFLEX® PVC 440

NORFLEX® PVC 440 HIGH PRESSURE

Film blowing machine, cooling air at the extrusion tool

AIRDUC® PUR 351 HT (MD)

AIRDUC® PUR 355 HT (HD)

PROTAPE® TPE 320 AS (XLD)

PROTAPE® TPE 320 HT (XLD)

PROTAPE® TPE 321 REINFORCED (LD)

AIRDUC® TPE 363 (MD)

NORFLEX® PUR 441 FOOD

NEO 390 ONE

NEO 390 TWO

Suction and Disposal Vehicles

Suction excavator

Recommended by NORRES customers:

AIRDUC® PUR 356 AS (XHD)

Proven Alternatives:

AIRDUC® PUR 357 VAC-TRUCK

AIRDUC® PUR 355 VAC-TRUCK ORANGE



Suction vehicle:

Sewer cleaning, sewage cleaning

Recommended by NORRES customers:

NORPLAST® PVC 389 SUPERELASTIC WEAR STRIP (XHD)

Proven Alternatives:

AIRDUC® PUR 356 AS (XHD)

NORPLAST® PVC 379 GREEN SUPERELASTIC (HD)

NORPLAST® PVC 389 SUPERELASTIC PLUS (XHD)

Vacuum truck, suction vehicle:

Roof gravelling, roof gravel conveying

Recommended by NORRES customers:

AIRDUC® PUR 356 AS (XHD)

NORPLAST® PUR 387 (XXHD)

Proven Alternatives:

AIRDUC® PUR 355 VAC-TRUCK REINFORCED

Vacuum truck, suction vehicle, dry suction truck: Industrial cleaning, furnace cleaning

Recommended by NORRES customers:

AIRDUC® PUR 356 AS (XHD)

NORPLAST® PUR 387 (XXHD)

Proven Alternatives:

AIRDUC® PUR 355 VAC-TRUCK REINFORCED

AIRDUC® PUR 356 EC (XHD)

NORPLAST® PVC 389 SUPERELASTIC WEAR STRIP (XHD)

NORPLAST® PVC-C 389 AS SUPERELASTIC WEAR STRIP (XHD)

NORPLAST® PVC 389 SUPERELASTIC PLUS (XHD)

NORPLAST® PUR-C 387 AS (XXHD)



Industrial vacuum cleaners

Industrial vacuum cleaners, vacuum cleaners

Recommended by NORRES customers:

AIRDUC® PUR 355 AS (HD)
AIRDUC® PUR 355 AS WEAR STRIP (HD)
AIRDUC® PUR 355 EC (HD)

Proven Alternatives:

AIRDUC® PUR-INOX 351 FOOD-AS (MD)
AIRDUC® PUR-INOX 355 FOOD-AS (HD)
AIRDUC® PUR 356 AS (XHD)
SuperFlex 372
EVA 373
EVA 373 AS
EVA 373 EC



Fume and dust extraction

Extraction unit, dedusting system, filter system, oil mist extraction

Recommended by NORRES customers:

PROTAPE® PUR 301 AS (XLD)
PROTAPE® PUR 330 AS (LD)
AIRDUC® PUR 350 AS (MD)
PROTAPE® PVC 371 (HD)
PROTAPE® PVC 371 AS (HD)

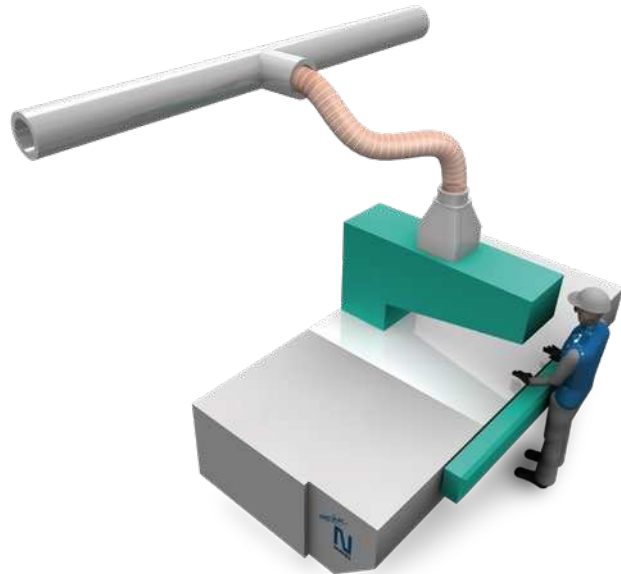
Proven Alternatives:

PROTAPE® PUR 330 AS BLACK (LD)
AIRDUC® PUR 350 AS BLACK (MD)
AIRDUC® PUR 351 FOOD (MD)
PROTAPE® PVC 310 (LD)
AIRDUC® PVC 341 (MD)



Galvanic extraction

PROTAPE® PUR 301 AS (XLD)
PROTAPE® PUR 330 AS (LD)
PROTAPE® PVC 310 (LD)
AIRDUC® PVC 341 (MD)
AIRDUC® PVC 345 (HD)
PROTAPE® PVC 371 (HD)
PROTAPE® PVC 371 AS (HD)



Chemical industry: Chemical vapours, vapour return hose at loading arm, paint steam, spray mist extraction

Recommended by NORRES customers:

PROTAPE® PE 322 EC (XLD)

Proven Alternatives:

PROTAPE® PUR 301 AS (XLD)
PROTAPE® PUR 330 AS (LD)
AIRDUC® PUR 350 AS (MD)
PROTAPE® TPE 320 HT (XLD)
PROTAPE® PVC 371 (HD)
PROTAPE® PVC 371 AS (HD)
AIRDUC® PE 362 EC (MD)
CP PE 457
CP PE 457 EC
CP HYP 450
CP VITON® 459 EC
CP PTFE-INOX 475 FOOD
CP PTFE-INOX 475 EC
CP PTFE/HYP-INOX 472
CP PTFE/HYP-INOX 472 EC
CP PTFE/GLASS-INOX 471
CP PTFE/GLASS-INOX 471 EC
CP Kapton® 476



Extraction arm

Recommended by NORRES customers:

PROTAPE® PVC 371 (LD)
PROTAPE® PVC 371 HT (LD)
PROTAPE® PVC 371 (MD)

Proven Alternatives:

PROTAPE® PUR 330 AS (LD)
PROTAPE® PUR-INOX 330 FOOD-AS (LD)
PROTAPE® PE 322 EC (XLD)
CP PE 457 EC
PROTAPE® PUR 370 (LD)
CP PVC 465
CP PVC 466 HT
CP HiTex 467 WELDING
CP PTFE-INOX 475 FOOD



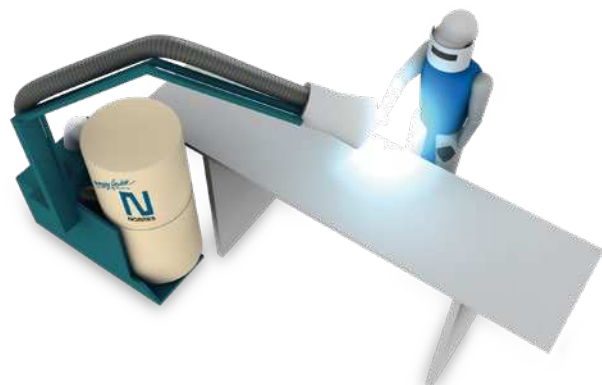
Welding fume extraction

Recommended by NORRES customers:

PROTAPE® PVC 371 HT (LD)
CP HiTex 467 WELDING

Proven Alternatives:

PROTAPE® PUR 301 AS (XLD)
PROTAPE® PUR 330 AS (LD)
PROTAPE® PUR 370 (LD)
PROTAPE® PVC 371 (LD)
PROTAPE® PVC 371 (MD)
PROTAPE® ALU-PVC 369
CP PVC 465
CP PVC 466 HT



Shot blasting / sand blasting

Surface preparation: Shot blasting / sand blasting recovery e.g. at blasting chamber, ship yard, stripping machine, floor preparation machine, grinding machine

Recommended by NORRES customers:

AIRDUC® PUR 355 AS (HD)

AIRDUC® PUR 355 AS WEAR STRIP (HD)

Proven Alternatives:

PROTAPE® PUR 330 AS (LD)

AIRDUC® PUR 350 AS (MD)

AIRDUC® PUR 351 FOOD (MD)

AIRDUC® PUR 356 AS (XHD)



Wood processing industry

Wood dust extraction, wood chips:

Furniture production, saw mill

Recommended by NORRES customers:

TIMBERDUC® PUR 531 AS (XLD)

TIMBERDUC® PUR 532 AS (LD)

TIMBERDUC® PUR 532 CNC (MD)

TIMBERDUC® PUR 533 AS (MD)

Proven Alternatives:

PROTAPE® PUR 301 AS (XLD)

PROTAPE® PUR 330 AS (LD)

AIRDUC® PUR 350 AS (MD)

AIRDUC® PUR 355 AS (HD)

METAL HOSE 375

METAL HOSE 375 HT

METAL HOSE INOX 376



Wood dust extraction:

CNC machine, CNC machining center (especially for fast moving systems)

Recommended by NORRES customers:

TIMBERDUC® PUR 532 CNC (MD)

Proven Alternatives:

TIMBERDUC® PUR 531 AS (XLD)

PROTAPE® PUR 301 AS (XLD)

PROTAPE® PUR 330 AS (LD)

Wood dust extraction: Vertical panel saw, saw, woodworking machine, edge processing machine, parquet flooring grinding machine

Recommended by NORRES customers:

TIMBERDUC® PUR 532 AS (LD)

TIMBERDUC® PUR 533 AS (MD)

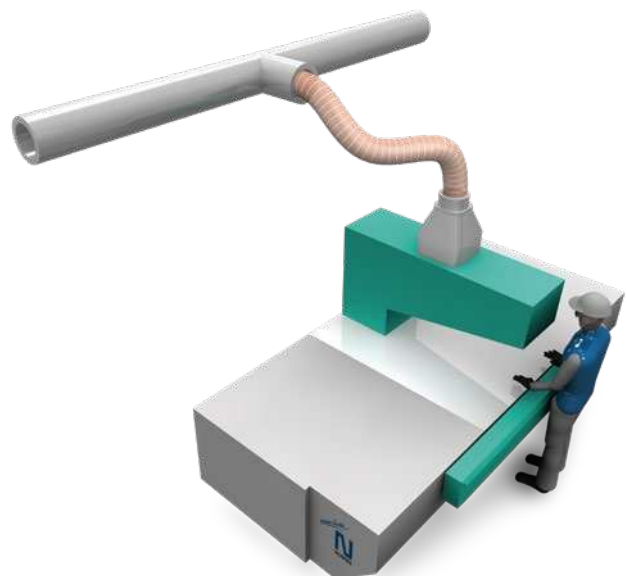
Proven Alternatives:

PROTAPE® PUR 301 AS (XLD)

PROTAPE® PUR 330 AS (LD)

AIRDUC® PUR 350 AS (MD)

AIRDUC® PUR 355 AS (HD)



Agricultural industry

Conveying of seed and fertilizers:

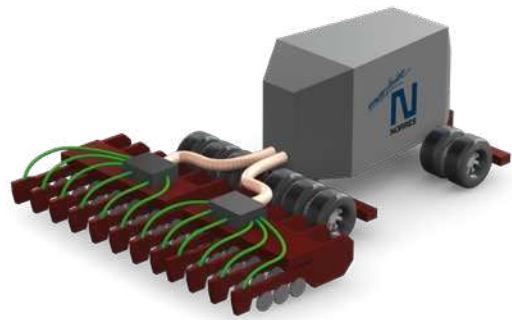
Seeding machine, seed drill, drilling machine

AIRDUC® PUR 355 AS (HD)

AIRDUC® PUR 355 AS WEAR STRIP (HD)

AIRDUC® PUR 355 FOOD (HD)

NORPLAST® PVC 379 GREEN SUPERELASTIC (HD)



Pneumatic grain conveyer

Recommended by NORRES customers:

AIRDUC® PUR 355 AS (HD)

AIRDUC® PUR 355 AS WEAR STRIP (HD)

Proven Alternatives:

AIRDUC® PUR 355 FOOD (HD)

AIRDUC® PUR 356 AS (XHD)

AIRDUC® PUR 356 FOOD (XHD)



Irrigation, fertilizers, insecticides

BARDUC® PVC 381 FOOD (HD)

NORPLAST® PVC 383 WEAR STRIP (LD)

NORPLAST® PVC 388 SUPERELASTIC (MD)

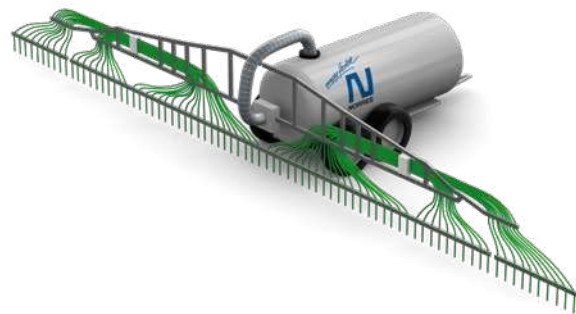
NORPLAST® PVC 380 GREEN (HD)

NORPLAST® PVC 379 GREEN SUPERELASTIC (HD)

NORPLAST® PVC 389 SUPERELASTIC WEAR STRIP (XHD)

NORPLAST® PVC 389 SUPERELASTIC PLUS (XHD)

NORFLEX® PVC 440 HIGH PRESSURE



High pressure spraying hose e.g. for pesticides

NORFLEX® PUR 441 ROBOTIC

NORFLEX® PVC 440 HIGH PRESSURE



Manure spreader, slurry spreader, slurry tanker

NORPLAST® PVC 379 GREEN SUPERELASTIC (HD)

NORPLAST® PVC 389 SUPERELASTIC WEAR STRIP (XHD)

NORPLAST® PVC 389 SUPERELASTIC PLUS (XHD)



Animal stall, animal shed: Barn ventilation

PROTAPE® PUR 301 AS (XLD)

PROTAPE® PUR 330 AS (LD)

PROTAPE® PVC 310 (LD)

PROTAPE® PVC 371 (LD)

PROTAPE® PVC 371 (MD)



Animal stall, animal shed: Feedstuff conveying, feedstuff plant, animal feed transport



AIRDUC® PUR 351 FOOD (MD)

AIRDUC® PUR 355 FOOD (HD)

NORPLAST® PUR 387 (XXHD)



Sweeping and cleaning machines

Municipal vehicle: Sweeper, sweeping machine

Recommended by NORRES customers:

AIRDUC® PUR 350 AS (MD)
 AIRDUC® PUR 351 FOOD (MD)
 AIRDUC® PUR 355 AS (HD)
 AIRDUC® PUR 355 AS WEAR STRIP (HD)
 AIRDUC® PUR 351 SWEEPER
 AIRDUC® PUR 355 SWEEPER
 AIRDUC® PUR 355 SWEEPER REINFORCED

Proven Alternatives:

PROTAPE® PUR 327 MEMORY
 PROTAPE® PUR 327 PP
 AIRDUC® PUR 355 VAC-TRUCK ORANGE



Municipal vehicle: Lawn mower, slope mower, leaf blower / leaf collector

Recommended by NORRES customers:

AIRDUC® PUR 350 AS (MD)
 AIRDUC® PUR 351 FOOD (MD)

Proven Alternatives:

PROTAPE® PUR 327 MEMORY
 PROTAPE® PUR 327 PP
 AIRDUC® PUR 355 AS (HD)



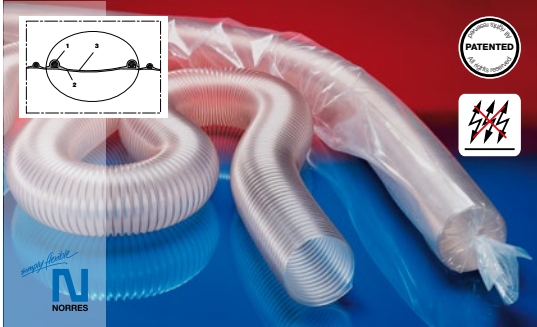


Polyurethane (Pre-PUR[®]) suction hoses and conveying hoses

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PROTAPE® PUR 301 AS (XLD)



- Universal ester polyurethane hose
- super-light weight
- microbe resistant
- good resistance to oil, gasoline and chemicals
- flame-retardant according to: UL94-HB
- flame-retardant according to: DIN 4102-B1
- antistatic $<10^9 \Omega$
- -40°C to $+90^\circ\text{C}$ ($+125^\circ\text{C}$)



Design, Material: patented PROTAPE® tape hose; spring steel wire integrated in wall; wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)

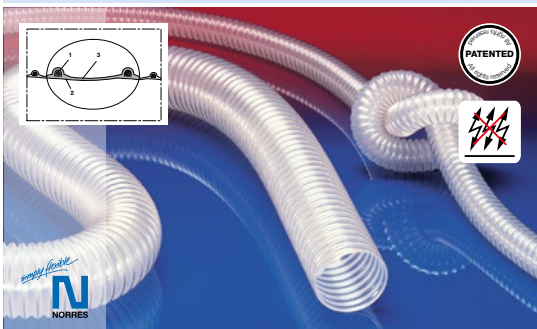
Wall thickness: 0,4mm

Ø: 1.5"/38mm - 19.7"/500mm

Accessories: 212, 210, 217, 213, 228, 223, 270-271

ideal for: extraction units, extraction arms, ventilation, filter systems

PROTAPE® PUR 330 AS (LD)



- Universal ester polyurethane hose
- lightweight and reinforced
- microbe resistant
- good resistance to oil, gasoline and chemicals
- flame-retardant according to: DIN 4102-B1
- antistatic $<10^9 \Omega$
- -40°C to $+90^\circ\text{C}$ ($+125^\circ\text{C}$)



Design, Material: patented PROTAPE® tape hose; spring steel wire integrated in wall; wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)

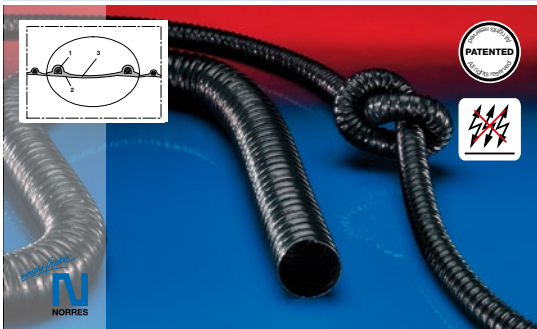
Wall thickness: 0,6mm

Ø: 1"/25mm - 19.7"/500mm

Accessories: 212, 210, 217, 213, 228, 223, 270-271

ideal for: extraction units, extraction arms, ventilation, filter systems

PROTAPE® PUR 330 AS BLACK (LD)



- Universal ester polyurethane hose
- lightweight and reinforced
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- antistatic $<10^9 \Omega$
- -40°C to $+90^\circ\text{C}$ ($+125^\circ\text{C}$)



Design, Material: patented PROTAPE® tape hose; spring steel wire integrated in wall; wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)

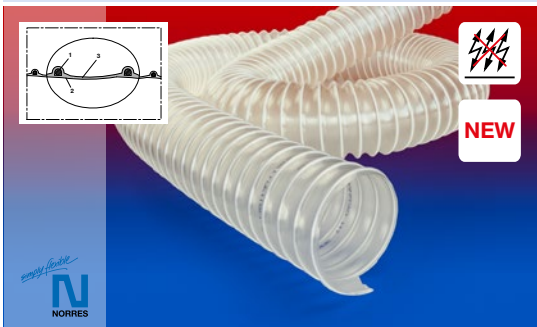
Wall thickness: 0,6mm

Ø: 1.57"/40mm - 8"/200-203mm

Accessories: 212, 210, 217, 213, 228, 223, 270-271

ideal for: extraction units, extraction arms, ventilation, filter systems, leaf blowers

PROTAPE® PUR 333 AS (MD)



- Universal ester polyurethane hose
- medium-heavy duty
- increased pressure and vacuum resistance
- microbe resistant
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- antistatic approx. $10^9 \Omega$
- -40°C to $+90^\circ\text{C}$ ($+125^\circ\text{C}$)



Design, Material: PROTAPE® tape hose; spring steel wire integrated in wall; plastic coated spring steel wire; wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)

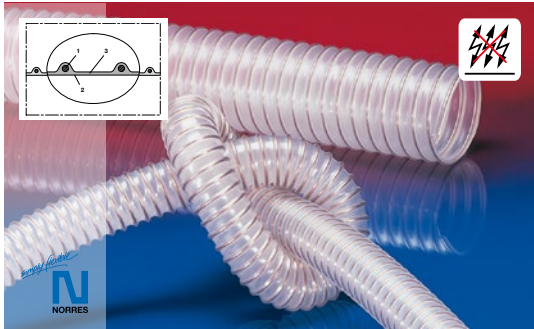
Wall thickness: 0,9mm

Ø: 1.57"/40mm - 11.8"/300mm

Accessories: 212, 210, 217, 213, 228, 223, 270-271

ideal for: extraction units

AIRDUC® PUR 350 AS (MD)



- Universal ester polyurethane hose
- medium-heavy duty
- microbe resistant
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- flame-retardant according to: UL94-V2 & DIN 4102-B1
- conforms to the safety regulations of the German Wood Trade Association
- antistatic <10⁹ Ω
- -40°C to +90°C (+125°C)



Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)

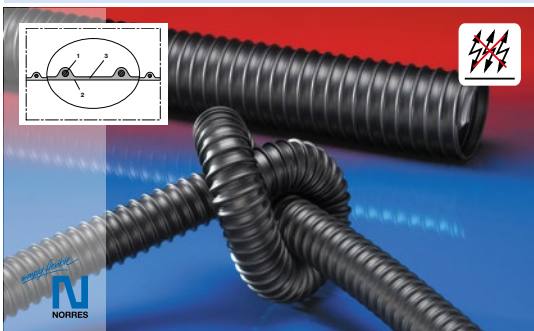
Wall thickness: 0,7mm

Ø: 1"/25mm - 19.7"/500mm

Accessories: 212, 210, 217, 213, 228, 223, 270-271

ideal for: extraction units, leaf blowers, mowing machines

AIRDUC® PUR 350 AS BLACK (MD)



- Universal ester polyurethane hose
- medium-heavy duty
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- antistatic <10⁹ Ω
- -40°C to +90°C (+125°C)



Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)

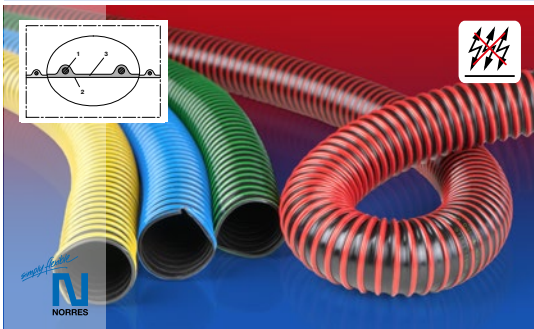
Wall thickness: 0,7mm

Ø: 1.57"/40mm - 11.8"/300mm

Accessories: 212, 210, 217, 213, 228, 223, 270-271

ideal for: extraction units, leaf blowers, mowing machines

AIRDUC® PUR 350 AS TWIN COLOR (MD)



- Universal ester polyurethane hose
- medium-heavy duty
- microbe resistant
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- two-coloured
- antistatic <10⁹ Ω
- -40°C to +90°C (+125°C)



Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall

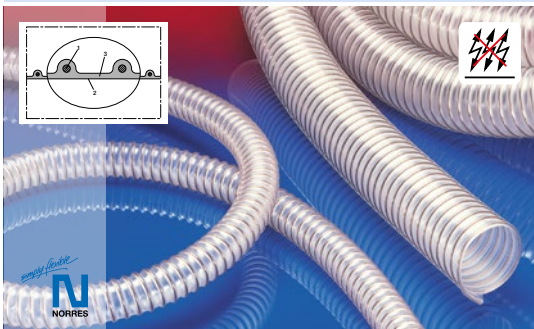
Wall thickness: 0,7mm

Ø: 1.25"/32mm - 8"/200-203mm

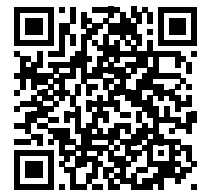
Accessories: 212, 210, 217, 213, 228, 223, 270-271

ideal for: extraction units, leaf blowers, mowing machines

AIRDUC® PUR 355 AS (HD)



- Universal ester polyurethane hose
- heavy duty
- increased pressure and vacuum resistance
- microbe resistant
- good resistance to oil, gasoline and chemicals
- flame-retardant according to: UL94-V2 & DIN 4102-B1
- antistatic <10⁹ Ω
- -40°C to +90°C (+125°C)



Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)

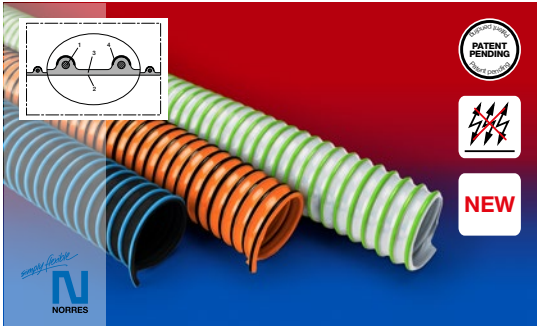
Wall thickness: 1,5mm

Ø: 0.5"/13mm - 19.7"/500mm

Accessories: 212, 216, 212 EC, 217, 213, 228, 231, 232, 233, 234, 240+241, 242, 243, 244, 245 VAC-TRUCK, 245, 246, 223, 270-271

ideal for: granulate conveying, industrial vacuum cleaners, printed circuit board drilling machines (PCB), offset printing machines, pneumatic grain conveyor, seeder

AIRDUC® PUR 355 AS WEAR STRIP (HD)



- Universal ester polyurethane hose
- external abrasion protection via external helix (protects floors and surfaces, prolongs service life, easy to use)
- heavy duty
- increased pressure and vacuum resistance
- microbe resistant
- good resistance to oil, gasoline and chemicals
- antistatic $<10^9 \Omega$
- -40°C to $+90^\circ\text{C}$ ($+125^\circ\text{C}$)



Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: permanently antistatic premium ester-polyurethane (Pre-PUR®); abrasion resistant protection profile (wear strip)

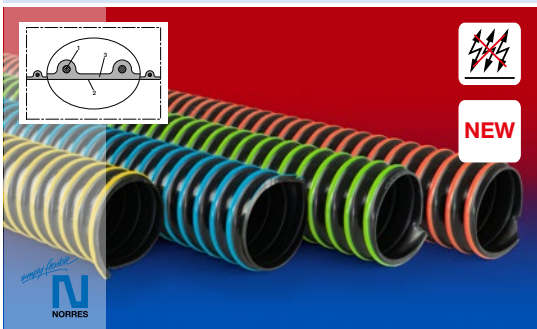
Wall thickness: 1,5mm

Ø: 1.25"/32mm - 2.75"/70mm

Accessories: 212, 216, 212 EC, 217, 213, 228, 231, 232, 233, 234, 240 + 241, 242, 243, 245 CONE FLANGE, 245, 246, 223, 270-271

ideal for: industrial vacuum cleaners

AIRDUC® PUR 355 AS TWIN COLOR (HD)



- Universal ester polyurethane hose
- heavy duty
- increased pressure and vacuum resistance
- microbe resistant
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- two-coloured
- antistatic $<10^9 \Omega$
- -40°C to $+90^\circ\text{C}$ ($+125^\circ\text{C}$)



Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)

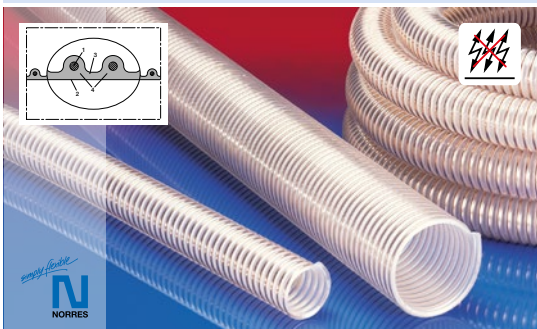
Wall thickness: 1,5mm

Ø: 1.25"/32mm - 8"/200-203mm

Accessories: 212, 216, 212 EC, 217, 213, 228, 231, 232, 233, 234, 240 + 241, 242, 243, 245 CONE FLANGE, 245, 246, 223, 270-271

ideal for: granulate conveying, industrial vacuum cleaners

AIRDUC® PUR 356 AS (XHD)



- Universal ester polyurethane hose
- super-heavy duty
- extremely abrasion-resistant with reinforcement underneath wire and narrow hose pitch
- very high pressure, vacuum and compression resistance
- microbe resistant
- good resistance to oil, gasoline and chemicals
- antistatic $<10^9 \Omega$
- -40°C to $+90^\circ\text{C}$ ($+125^\circ\text{C}$)



Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: permanently antistatic premium ester-polyurethane (Pre-PUR®); reinforcement of the primary abrasion areas

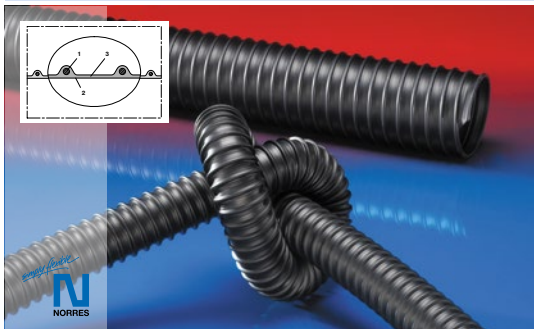
Wall thickness: 2,0 - 2,5mm

Ø: 1.25"/32mm - 11.8"/300mm

Accessories: 216, 211, 228, 231, 232, 233, 234, 240 + 241, 242, 243, 245 CONE FLANGE, 245, 246

ideal for: roof gravelling, granulate conveying, suction trucks, suction excavators, silos, tankers, dry suction trucks

AIRDUC® PUR 351 EC (MD)



- Electrically conductive polyurethane hose
- medium-heavy duty
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- electrically conductive $<10^3 \Omega$
- -40°C to $+90^\circ\text{C}$

Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: electrically conductive premium ester-polyurethane (Pre-PUR®)

Wall thickness: 0,7mm

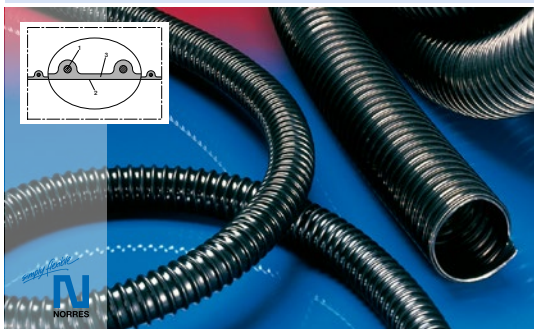
Ø: 1"/25mm - 9.85"/250mm

Accessories: 212, 210, 212 EC, 217, 213, 228, 233, 234, 240 + 241, 240 EC, 242, 243, 245, 246, 223, 270-271



ideal for: mines, explosion hazard areas, industrial vacuum cleaners

AIRDUC® PUR 355 EC (HD)



- Electrically conductive polyurethane hose
- heavy duty
- increased pressure and vacuum resistance
- good resistance to oil, gasoline and chemicals
- electrically conductive $<10^3 \Omega$
- -40°C to $+90^\circ\text{C}$

Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: electrically conductive premium ester-polyurethane (Pre-PUR®)

Wall thickness: 1,4mm

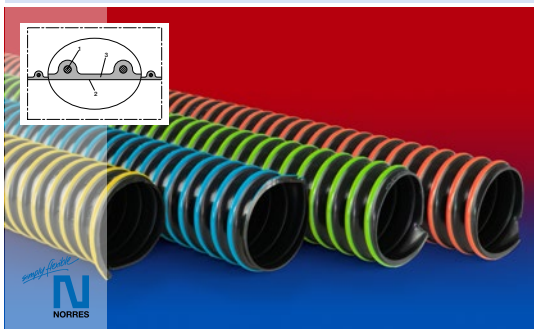
Ø: 1"/25mm - 12.40"/250mm

Accessories: 212, 216, 212 EC, 217, 213, 228, 231, 232, 233, 234, 240 + 241, 240 EC, 242, 243, 245, 246, 223, 270-271



ideal for: explosion hazard areas, industrial vacuum cleaners

AIRDUC® PUR 355 EC TWIN COLOR (HD)



- Electrically conductive polyurethane hose
- heavy duty
- increased pressure and vacuum resistance
- good resistance to oil, gasoline and chemicals
- two-coloured
- electrically conductive $<10^3 \Omega$
- -40°C to $+90^\circ\text{C}$

Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: electrically conductive premium ester-polyurethane (Pre-PUR®)

Wall thickness: 1,4mm

Ø: 1.25"/32mm - 8"/200-203mm

Accessories: 212, 216, 212 EC, 217, 213, 228, 231, 232, 233, 234, 240 + 241, 240 EC, 242, 243, 245, 246, 223, 270-271



ideal for: explosion hazard areas, industrial vacuum cleaners

AIRDUC® PUR 356 EC (XHD)



- Electrically conductive polyurethane hose
- super-heavy duty
- extremely abrasion-resistant with reinforcement underneath wire and narrow hose pitch
- very high pressure, vacuum and compression resistance
- good resistance to oil, gasoline and chemicals
- electrically conductive $<10^3 \Omega$
- -40°C to $+90^\circ\text{C}$



Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: electrically conductive premium ester-polyurethane (Pre-PUR®); reinforcement of the primary abrasion areas

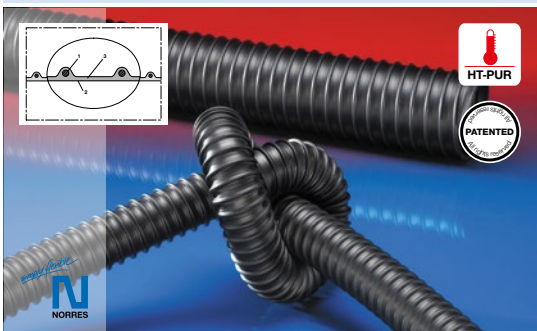
Wall thickness: 2,0 - 2,5mm

Ø: 1.5"/38mm - 4"/102mm

Accessories: 216, 211, 228, 231, 232, 233, 234, 240 + 241, 240 EC, 242, 243, 245, 246

ideal for: explosion hazard areas, suction trucks, dry suction trucks

AIRDUC® PUR 351 HT (MD)



- High-temperature hose
- medium-heavy duty
- very good heat resistance (better than comparable TPE and Neoprene)
- good resistance to oil, gasoline and chemicals
- -40°C to $+125^\circ\text{C}$ ($+150^\circ\text{C}$)



Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: patented special premium high-temperature polyurethane HT-PUR (Pre-PUR®)

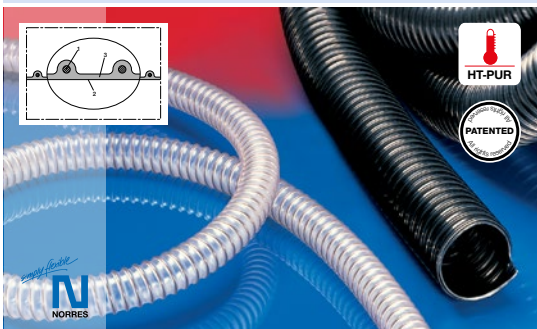
Wall thickness: 1,0mm

Ø: 1"/25mm - 8"/200-203mm

Accessories: 212, 212 EC, 217, 213, 228, 270-271

ideal for: granulate conveying, hot air tube, vacuum pumps

AIRDUC® PUR 355 HT (HD)



- High-temperature hose
- heavy duty
- very good heat resistance (better than comparable TPE and Neoprene)
- increased pressure and vacuum resistance
- good resistance to oil, gasoline and chemicals
- -40°C to $+125^\circ\text{C}$ ($+150^\circ\text{C}$)



Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: patented special premium high-temperature polyurethane HT-PUR (Pre-PUR®)

Wall thickness: 1,5mm

Ø: 1"/25mm - 8"/200-203mm

Accessories: 212, 216, 212 EC, 217, 213, 228, 231, 232, 233, 234, 270-271

ideal for: granulate conveying, hot air tube, vacuum pumps

AIRDUC® PUR 356 HT (XHD)



- High-temperature hose
- super-heavy duty
- extremely abrasion-resistant with reinforcement underneath wire and narrow hose pitch
- very good heat resistance (better than comparable TPE and Neoprene)
- very high pressure, vacuum and compression resistance
- good resistance to oil, gasoline and chemicals
- -40°C to $+125^\circ\text{C}$ ($+150^\circ\text{C}$)



Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: patented special premium high-temperature polyurethane HT-PUR (Pre-PUR®); reinforcement of the primary abrasion areas

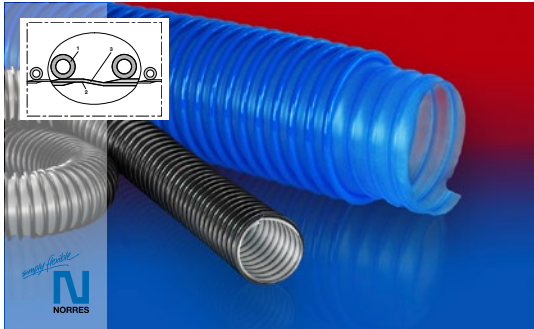
Wall thickness: 2,0 - 2,5mm

Ø: 2"/50mm - 6"/152mm

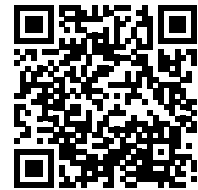
Accessories: 216, 211, 228, 231, 232, 233, 234, 245 CONE FLANGE

ideal for: granulate conveying, hot air tube, vacuum pumps

PROTAPE® PUR 327 MEMORY



- Crush resistant polyurethane hose
- medium-heavy duty
- crush resistant
- Food grade wall, complies with: EU-Directive 10/2011 and EC 1935/2004, incl. the latest EU-Directive 2015/174, FDA 21 CFR 177.2600
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals
- -40°C to +90°C (+125°C)



Design, Material: patented PROTAPE® tape hose; special plastic-profile supporting spiral; wall: special premium ether-polyurethane (Pre-PUR®)

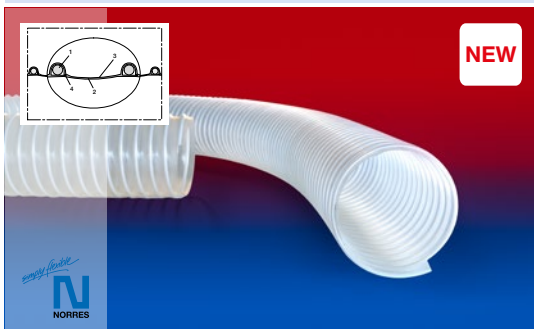
Wall thickness: 0,6mm

Ø: 2"/50-51mm - 8"/200-203mm

Accessories: 212, 217, 213, 228, 270-271

ideal for: municipal vehicles, sweepers, leaf blowers, mowing machines, toilet discharging

PROTAPE® PUR 327 PP



- Crush resistant polyurethane hose, PP helix
- super-light weight
- crush resistant
- microbe resistant
- good resistance to oil, gasoline and chemicals
- -40°C to +90°C



Design, Material: patented PROTAPE® tape hose; special plastic-profile supporting spiral; wall: special premium ester-polyurethane (Pre-PUR®); grounding wire

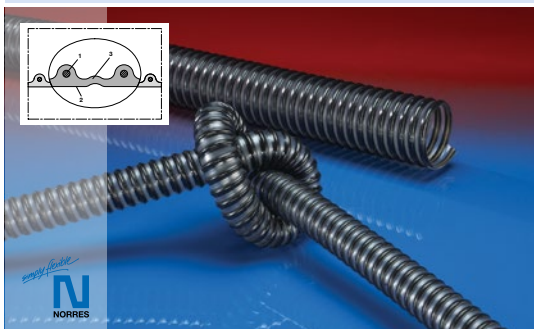
Wall thickness: 0,4mm

Ø: 2"/50mm - 8"/200-203mm

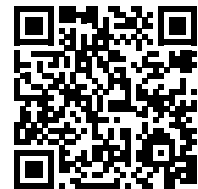
Accessories: 212, 217, 213, 228, 270-271

ideal for: municipal vehicles, sweepers, magnetic resonance tomograph, leaf blowers, mowing machines

AIRDUC® PUR 351 SWEEPER



- Sweeper hose
- medium-heavy duty
- protected, flow-optimizing exterior folds
- microbe resistant
- good resistance to oil, gasoline and chemicals
- -40°C to +90°C



Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: special premium polyurethane (Pre-PUR®)

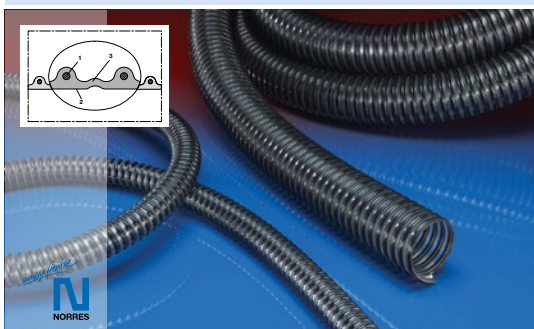
Wall thickness: 1,0mm

Ø: 5.5"/140mm - 12.40"/250mm

Accessories: 211, 240 + 241, 270-271

ideal for: municipal vehicles, sweepers, small street sweeping machines

AIRDUC® PUR 355 SWEEPER



- Sweeper hose
- heavy duty
- protected, flow-optimizing exterior folds
- microbe resistant
- good resistance to oil, gasoline and chemicals
- -40°C to +90°C (+125°C)



Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: special premium polyurethane (Pre-PUR®)

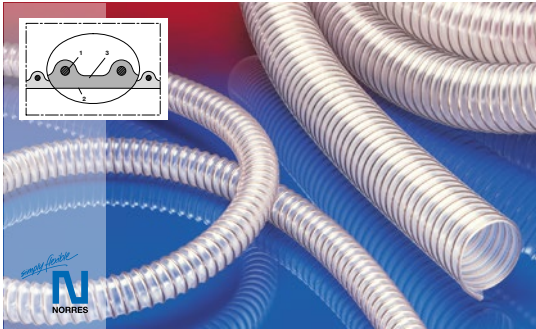
Wall thickness: 1,5mm

Ø: 5.5"/140mm - 16"/405-406mm

Accessories: 211, 240 + 241, 270-271

ideal for: large street sweeping machines, municipal vehicles, sweepers

AIRDUC® PUR 355 SWEEPER REINFORCED



- Sweeper hose
- heavy duty and reinforced
- interior folding
- microbe resistant
- good resistance to oil, gasoline and chemicals
- -40°C to +90°C (+125°C)

Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: special premium polyurethane (Pre-PUR®); reinforcement of the primary abrasion areas

Wall thickness: 1,5 - 1,8mm

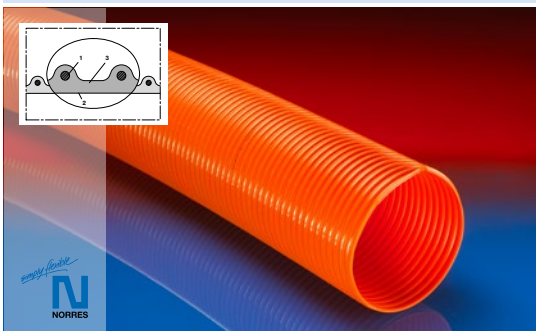
Ø: 8"/200mm - 12"/305mm

Accessories: 211, 240 + 241, 245 CONE FLANGE, 270-271



ideal for: large street sweeping machines, municipal vehicles, sweepers

AIRDUC® PUR 355 VAC-TRUCK ORANGE



- Vacuum truck hose
- heavy duty and reinforced
- microbe resistant
- good resistance to oil, gasoline and chemicals
- -40°C to +90°C (+125°C)

Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: special premium polyurethane (Pre-PUR®); reinforcement of the primary abrasion areas

Wall thickness: 2,5mm

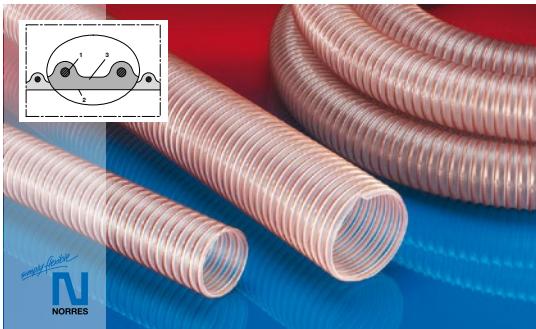
Ø: 8"/200mm - 13.85"/352mm

Accessories: 211, 240 + 241, 270-271



ideal for: slope mowers, municipal vehicles, suction excavators

AIRDUC® PUR 355 VAC-TRUCK REINFORCED



- Vacuum truck hose
- heavy duty and reinforced
- extremely abrasion-resistant with reinforcement underneath wire
- increased pressure and vacuum resistance
- good resistance to oil, gasoline and chemicals
- 40°C to +90°C (+125°C)

Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: special premium ester-polyurethane (Pre-PUR®)

Wall thickness: 2,5mm

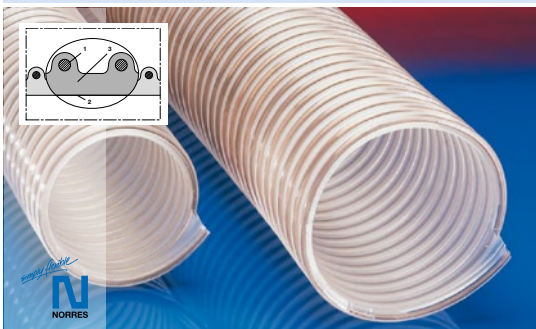
Ø: 3.35"/85mm - 6"/152mm

Accessories: 211



ideal for: roof gravelling, suction trucks, dry suction trucks

AIRDUC® PUR 357 VAC-TRUCK



- Vacuum truck hose
- super-heavy duty and extremely reinforced
- extremely abrasion-resistant with extremely thick polyurethane wall
- very high pressure, vacuum and compression resistance
- good resistance to oil, gasoline and chemicals
- -40°C to +90°C (+125°C)

Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: special premium ester-polyurethane (Pre-PUR®)

Wall thickness: 4 - 5mm

Ø: 4"/100mm - 12.40"/250mm

Accessories: 211



ideal for: rock drills, suction excavators



Polyurethane (Pre-PUR[®]) foodstuff hoses

Content

PROTAPE[®] PUR-C 335 FOOD-AS FLAT

Screening machine hose and compensator, vibration resistant-40°C to 90°C 29

CP PUR 455 FOOD

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PROTAPE[®] PUR 331 FOOD (XLD)

Food hose and pharmaceutical hose, light-40°C to 90°C 29

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Food hose and pharmaceutical hose, light-40°C to 90°C 30

PROTAPE[®] PUR-INOX 330 FOOD-AS (LD)

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AIRDUC[®] PUR 350 FOOD-AS (MD)

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AIRDUC[®] PUR 355 FOOD (HD)

Food hose and pharmaceutical hose, heavy-40°C to 90°C 31

AIRDUC[®] PUR-INOX 355 FOOD-AS (HD)

Antistatic food hose and pharmaceutical hose, heavy, stainless steel (INOX).....-40°C to 90°C 32

AIRDUC[®] PUR 356 FOOD (XHD)

Food hose and pharmaceutical hose, super-heavy-40°C to 90°C 32

AIRDUC[®] PUR-INOX 356 FOOD-AS (XHD)

Antistatic food hose and pharmaceutical hose, super-heavy, stainless steel (INOX)-40°C to 90°C 32

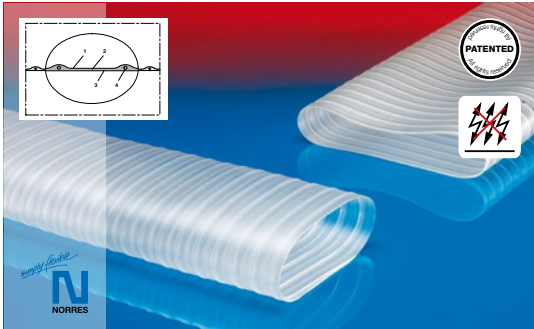
AIRDUC[®] PUR 356 FOOD REINFORCED (XXHD)

Food hose and pharmaceutical hose, super-heavy and reinforced.....-40°C to 90°C 33

BARDUC[®] PUR-INOX 382 FOOD-AS (XHD)

Antist. food/pharma hose, super-heavy + reinforced, smooth in-/ exterior, stainless steel (INOX).....-40°C to 90°C 33

PROTAPE® PUR-C 335 FOOD-AS FLAT



ideal for: foodstuff, pharmaceutical, plansifter, screening machines, tumbler screening machines, vibration screening machines

- Screening machine hose
- vibration resistant
- Food grade wall, complies with: EU-Directive 10/2011 and EC 1935/2004, incl. the latest EU-Directive 2015/174, FDA 21 CFR 177.2600
- microbe and hydrolysis resistant
- good resistance to oil, gasoline and chemicals
- antistatic <10⁹ Ω
- -40°C to +90°C (+125°C)



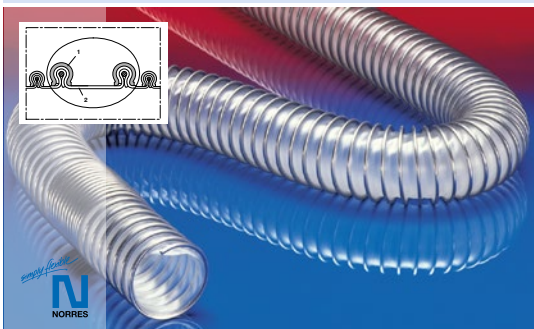
Design, Material: patented PROTAPE® tape hose; wall interior and exterior smooth; wall: permanently antistatic premium ether-polyurethane (Pre-PUR®); wall interior smooth; grounding wire

Wall thickness: 1,0mm

Ø: 2"/50mm - 16"/405-406mm

Accessories: 208, 211, 228, 270-271

CP PUR 455 FOOD



ideal for: extraction units, foodstuff, pharmaceutical

- Food hose and pharmaceutical hose
- abrasion protection via external clamp profile
- highly flexible + compressible 5:1
- Food grade wall, complies with: EU-Directive 10/2011 and EC 1935/2004, incl. the latest EU-Directive 2015/174, FDA 21 CFR 177.2600
- microbe and hydrolysis resistant
- -40°C to +90°C (+125°C)

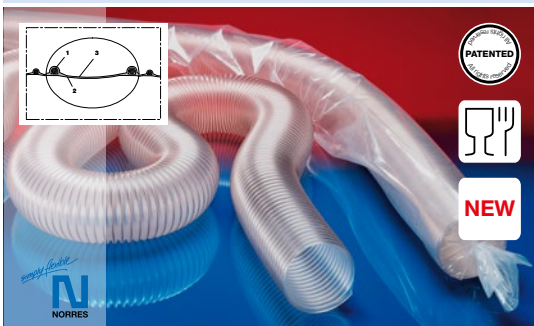


Design, Material: CP construction; clamp profile supporting spiral: galvanised steel; wall: special premium ether-polyurethane (Pre-PUR®)

Ø: 2"/50-51mm - 40"/1016mm

Accessories: 212, 217, 213, 228, 270-271

PROTAPE® PUR 331 FOOD (XLD)



ideal for: extraction units, foodstuff, pharmaceutical

- Food hose and pharmaceutical hose
- super-light weight
- Approved by an independent testing laboratory for the complete hose acc. to EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174, food grade polyurethane, complies with: FDA 21 CFR 177.2600 and 178.2010
- Approval acc. to EU-Directive 10/2011 (food simulants A, B, C or E and D2) and EC 1935/2004
- microbe and hydrolysis resistant
- -40°C to +90°C (+125°C)



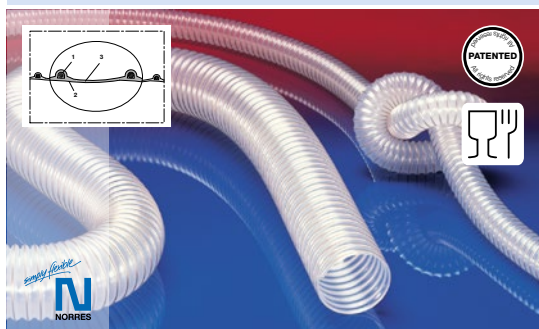
Design, Material: patented PROTAPE® tape hose; spring steel wire integrated in wall; extruded tape; wall: special premium ether-polyurethane (Pre-PUR®)

Wall thickness: 0,4mm

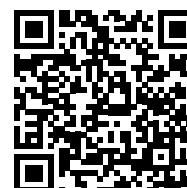
Ø: 1.5"/38mm - 19.7"/500mm

Accessories: 212, 210, 217, 213, 228, 223, 270-271

PROTAPE® PUR 330 FOOD (LD)



- Food hose and pharmaceutical hose
- lightweight and reinforced
- Approved by an independent testing laboratory for the complete hose acc. to EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174, food grade polyurethane, complies with: FDA 21 CFR 177.2600 and 178.2010
- Approval acc. to EU-Directive 10/2011 (food simulants A, B, C or E and D2) and EC 1935/2004
- microbe and hydrolysis resistant
- -40°C to +90°C (+125°C)



Design, Material: patented PROTAPE® tape hose; spring steel wire integrated in wall; wall: special premium ether-polyurethane (Pre-PUR®)

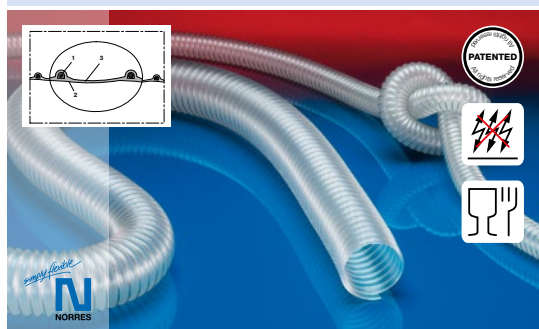
ideal for: extraction units, foodstuff, pharmaceutical

Wall thickness: 0,6mm

Ø: 1"/25mm - 19.7"/500mm

Accessories: 212, 210, 217, 213, 228, 223, 270-271

PROTAPE® PUR-INOX 330 FOOD-AS (LD)



- Food hose and pharmaceutical hose
- lightweight and reinforced
- Approved by an independent testing laboratory for the complete hose acc. to EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174, food grade polyurethane, complies with: FDA 21 CFR 177.2600
- Approval acc. to EU-Directive 10/2011 (food simulant E) and EC 1935/2004
- microbe and hydrolysis resistant
- antistatic <10⁹ Ω
- -40°C to +90°C



Design, Material: patented PROTAPE® tape hose; spring steel wire integrated in wall; spiral: stainless steel wire (INOX); wall: permanently antistatic premium ether-polyurethane (Pre-PUR®)

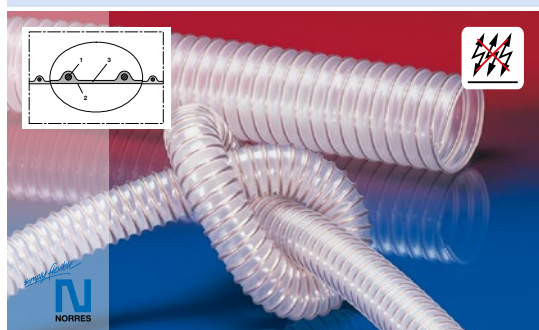
ideal for: extraction units, foodstuff, pharmaceutical

Wall thickness: 0,6mm

Ø: 1,5"/38mm - 11.8"/300mm

Accessories: 212, 210, 217, 213, 228, 223, 270-271

AIRDUC® PUR 350 FOOD-AS (MD)



- Food hose and pharmaceutical hose
- medium-heavy duty
- Food grade wall, complies with: EU-Directive 10/2011 and EC 1935/2004, incl. the latest EU-Directive 2015/174, FDA 21 CFR 177.2600
- food grade wall, complies with: FDA 21 CFR 177.1680 and 177.2600
- microbe and hydrolysis resistant
- antistatic <10⁹ Ω
- -40°C to +90°C (+125°C)



Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: permanently antistatic premium ether-polyurethane (Pre-PUR®)

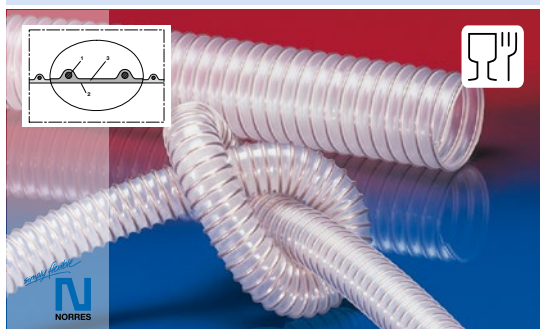
ideal for: extraction units, foodstuff, leaf blowers, pharmaceutical, mowing machines

Wall thickness: 0,7mm

Ø: 1"/25mm - 19.7"/500mm

Accessories: 212, 210, 217, 213, 228, 233, 234, 245 TRI CLAMP, 247, 249, 240 + 241 FOOD, 242, 243 FOOD, 244 FOOD, 245 FOOD, 246 FOOD, 223, 270-271

AIRDUC® PUR 351 FOOD (MD)



ideal for: foodstuff, leaf blowers, pharmaceutical, vacuum conveyor / vacuum conveying devices

- Food hose and pharmaceutical hose
- medium-heavy duty
- Approved by an independent testing laboratory for the complete hose acc. to EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174, food grade polyurethane, complies with: FDA 21 CFR 177.2600 and 178.2010
- Approval acc. to EU-Directive 10/2011 (food simulants A, B, C or E and D2) and EC 1935/2004
- microbe and hydrolysis resistant
- flame-retardant according to: UL94-HB
- 40°C to +90°C (+125°C)



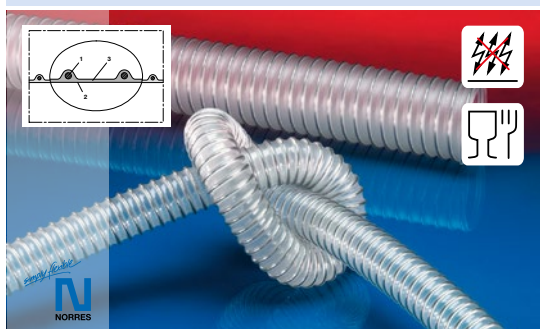
Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: special premium ether-polyurethane (Pre-PUR®)

Wall thickness: 1,0mm

Ø: 1"/25mm - 19.7"/500mm

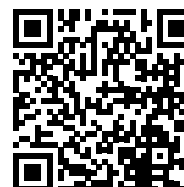
Accessories: 212, 210, 212 EC, 217, 213, 228, 233, 234, 245 TRI CLAMP, 247, 249, 240 + 241 FOOD, 242, 243 FOOD, 244 FOOD, 245 FOOD, 246 FOOD, 223, 270-271

AIRDUC® PUR-INOX 351 FOOD-AS (MD)



ideal for: foodstuff, pharmaceutical, vacuum conveyor / vacuum conveying devices

- Food hose and pharmaceutical hose
- medium-heavy duty
- Approved by an independent testing laboratory for the complete hose acc. to EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174, food grade polyurethane, complies with: FDA 21 CFR 177.2600
- Approval acc. to EU-Directive 10/2011 (food simulant E) and EC 1935/2004
- microbe and hydrolysis resistant
- antistatic <10⁹ Ω
- 40°C to +90°C



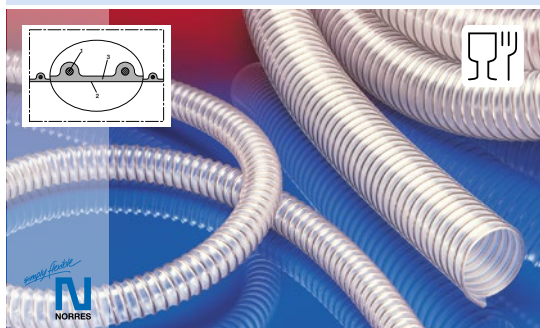
Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; spiral: stainless steel wire (INOX); wall: permanently antistatic premium ether-polyurethane (Pre-PUR®)

Wall thickness: 1,0mm

Ø: 1"/25mm - 8.9"/225mm

Accessories: 212, 210, 212 EC, 217, 213, 228, 233, 234, 245 TRI CLAMP, 247, 249, 240 + 241 FOOD, 242, 243 FOOD, 244 FOOD, 245 FOOD, 246 FOOD, 223, 270-271

AIRDUC® PUR 355 FOOD (HD)



ideal for: foodstuff, pharmaceutical, seeder, toilet discharging, vacuum conveyor / vacuum conveying devices

- Food hose and pharmaceutical hose
- heavy duty
- Approved by an independent testing laboratory for the complete hose acc. to EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174, food grade polyurethane, complies with: FDA 21 CFR 177.2600 and 178.2010
- Approval acc. to EU-Directive 10/2011 (food simulants A, B, C or E and D2) and EC 1935/2004
- microbe and hydrolysis resistant
- flame-retardant according to: UL94-V2-
- 40°C to +90°C (+125°C)



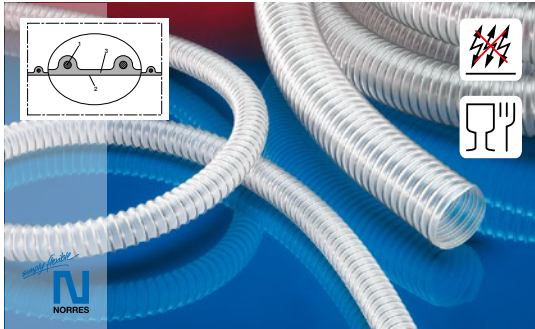
Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: special premium ether-polyurethane (Pre-PUR®)

Wall thickness: 1,5mm

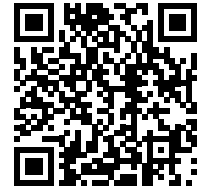
Ø: 0.5"/13mm - 11.8"/300mm

Accessories: 212, 216, 212 EC, 217, 213, 228, 231, 232, 233, 234, 245 TRI CLAMP, 247, 249, 240 + 241 FOOD, 242, 243 FOOD, 244 FOOD, 245 FOOD, 246 FOOD, 223, 270-271

AIRDUC® PUR-INOX 355 FOOD-AS (HD)



- Food hose and pharmaceutical hose
- heavy duty
- Approved by an independent testing laboratory for the complete hose acc. to EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174, food grade polyurethane, complies with: FDA 21 CFR 177.2600
- Approval acc. to EU-Directive 10/2011 (food simulant E) and EC 1935/2004
- microbe and hydrolysis resistant
- antistatic $<10^9 \Omega$
- -40°C to $+90^\circ\text{C}$



ideal for: foodstuff, pharmaceutical, tablet presses, vacuum conveyor/vacuum conveying devices

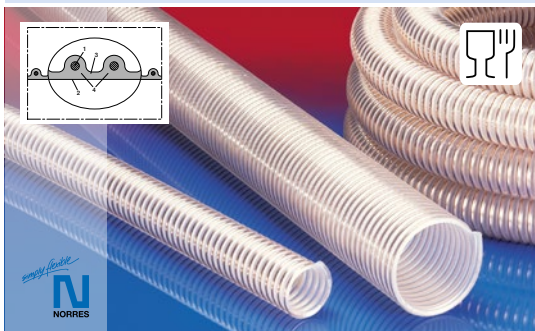
Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; spiral: stainless steel wire (INOX); wall: permanently antistatic premium ether-polyurethane (Pre-PUR®)

Wall thickness: 1,5mm

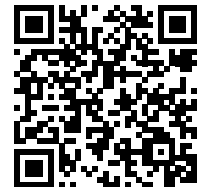
Ø: 1"/25mm - 8"/200-203mm

Accessories: 212, 216, 212 EC, 217, 213, 228, 231, 232, 233, 234, 245 TRI CLAMP, 247, 249, 240 + 241 FOOD, 242, 243 FOOD, 244 FOOD, 245 FOOD, 246 FOOD, 223, 270-271

AIRDUC® PUR 356 FOOD (XHD)



- Food hose and pharmaceutical hose
- super-heavy duty
- extremely abrasion-resistant with reinforcement underneath wire and narrow hose pitch
- very high pressure, vacuum and compression resistance
- Approved by an independent testing laboratory for the complete hose acc. to EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174, food grade polyurethane, complies with: FDA 21 CFR 177.2600 and 178.2010
- Approval acc. to EU-Directive 10/2011 (food simulants A, B, C or E and D2) and EC 1935/2004
- microbe and hydrolysis resistant
- -40°C to $+90^\circ\text{C}$ ($+125^\circ\text{C}$)



ideal for: foodstuff, pharmaceutical, silos, tankers

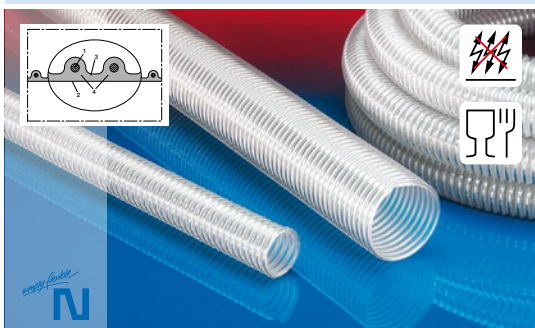
Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: special premium ether-polyurethane (Pre-PUR®); reinforcement of the primary abrasion areas

Wall thickness: 2,0 - 2,5mm

Ø: 1.25"/32mm - 6"/152mm

Accessories: 216, 211, 231, 232, 233, 234, 245 TRI CLAMP, 247, 249, 240 + 241 FOOD, 242, 243 FOOD, 244 FOOD, 245 FOOD, 246 FOOD

AIRDUC® PUR-INOX 356 FOOD-AS (XHD)



- Food hose and pharmaceutical hose
- super-heavy duty
- extremely abrasion-resistant with reinforcement underneath wire and narrow hose pitch
- very high pressure, vacuum and compression resistance
- Approved by an independent testing laboratory for the complete hose acc. to EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174, food grade polyurethane, complies with: FDA 21 CFR 177.2600
- Approval acc. to EU-Directive 10/2011 (food simulant E) and EC 1935/2004
- microbe and hydrolysis resistant
- antistatic $<10^9 \Omega$
- 40°C to $+90^\circ\text{C}$ ($+125^\circ\text{C}$)



ideal for: foodstuff, pharmaceutical, silos, tankers

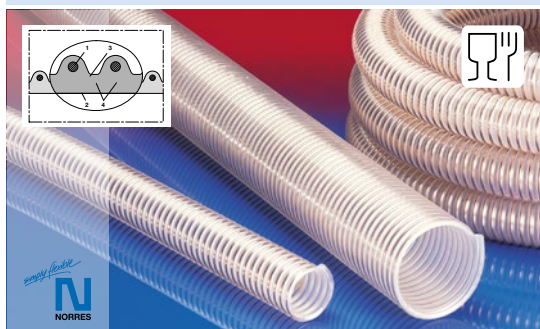
Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; spiral: stainless steel wire (INOX); wall: permanently antistatic premium ether-polyurethane (Pre-PUR®); reinforcement of the primary abrasion areas

Wall thickness: 2,0 - 2,5mm

Ø: 1.25"/32mm - 6"/152mm

Accessories: 216, 211, 231, 232, 233, 234, 240 + 241 FOOD, 242, 243 FOOD, 244 FOOD, 245 FOOD, 246 FOOD

AIRDUC® PUR 356 FOOD REINFORCED (XXHD)



- Food hose and pharmaceutical hose
- super-heavy duty and reinforced
- extremely abrasion-resistant with reinforcement underneath wire and narrow hose pitch
- very high pressure, vacuum and compression resistance
- Approved by an independent testing laboratory for the complete hose acc. to EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174, food grade polyurethane, complies with: FDA 21 CFR 177.2600 and 178.2010
- Approval acc. to EU-Directive 10/2011 (food simulants A, B, C or E and D2) and EC 1935/2004
- microbe and hydrolysis resistant
- -40°C to +90°C (+125°C)



ideal for: foodstuff, pharmaceutical

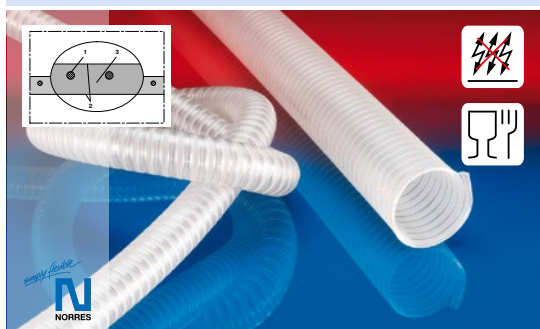
Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: special premium ether-polyurethane (Pre-PUR®); reinforcement of the primary abrasion areas

Wall thickness: 3,0 - 3,5mm

Ø: 2"/50mm - 6"/152mm

Accessories: 211, 230

BARDUC® PUR-INOX 382 FOOD-AS (XHD)



- Food hose and pharmaceutical hose
- super-heavy duty
- very high pressure, vacuum and compression resistance
- Approved by an independent testing laboratory for the complete hose acc. to EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174, food grade polyurethane, complies with: FDA 21 CFR 177.2600
- Approval acc. to EU-Directive 10/2011 (food simulant E) and EC 1935/2004
- microbe and hydrolysis resistant
- antistatic <10⁹ Ω
- -40°C to +90°C



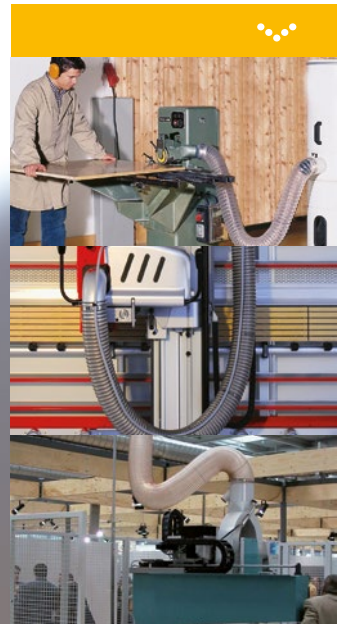
ideal for: foodstuff, pharmaceutical, tablet presses

Design, Material: BARDUC® design; spring steel wire spiral embedded in wall; spiral: stainless steel wire (INOX); smooth interior and exterior; wall: permanently antistatic premium ether-polyurethane (Pre-PUR®)

Wall thickness: 4 - 6mm

Ø: 1.25"/32mm - 4"/100-102mm

Accessories: 211

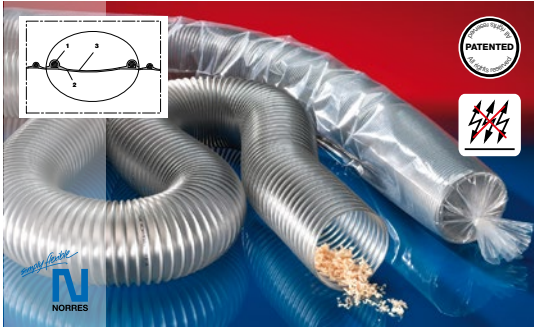


Hoses for the woodworking industry

Content

TIMBERDUC® PUR 531 AS (XLD) Antistatic polyurethane hose for the woodworking industry, light, flame-retardant.....	-40°C to 90°C 35
TIMBERDUC® PUR 532 AS (LD) Antistatic polyurethane hose for the woodworking industry, medium-heavy, flame-retardant.....	-40°C to 90°C 35
TIMBERDUC® PUR 532 CNC (MD) CNC machine hose for the woodworking ind., reinforced + for higher vacuum, highly flex. + comp. 4:1.....	-40°C to 90°C 35
TIMBERDUC® PUR 533 AS (MD) Antistatic polyurethane hose for the woodworking industry, heavy, flame-retardant.....	-40°C to 90°C 35

TIMBERDUC® PUR 531 AS (XLD)



ideal for: wood dust extraction, wood chips

- Polyurethane hose wood industry
- super-light weight
- microbe resistant
- flame-retardant according to: DIN 4102-B1
- conforms to the safety regulations of the German Wood Trade Association
- antistatic $<10^9 \Omega$
- -40°C to $+90^\circ\text{C}$ ($+125^\circ\text{C}$)

Design, Material: patented PROTAPE® tape hose; spring steel wire integrated in wall; wall: permanently antistatic premium polyurethane (Pre-PUR®), resistant to aggressive wood types and wood preservatives

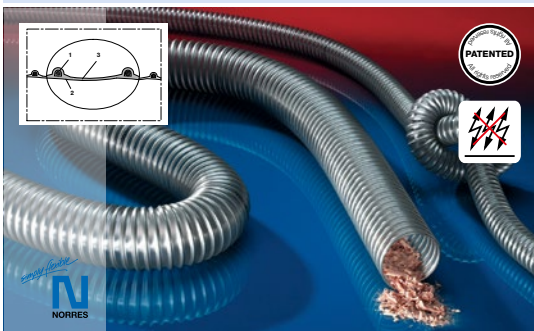
Wall thickness: 0,4mm

Ø: 1.57"/40mm - 15.70"/400mm

Accessories: 212, 210, 217, 213, 228, 223, 270-271



TIMBERDUC® PUR 532 AS (LD)



ideal for: wood dust extraction, wood chips

- Polyurethane hose wood industry
- light weight
- microbe resistant
- flame-retardant according to: DIN 4102-B1
- conforms to the safety regulations of the German Wood Trade Association
- antistatic $<10^9 \Omega$
- -40°C to $+90^\circ\text{C}$ ($+125^\circ\text{C}$)

Design, Material: patented PROTAPE® tape hose; spring steel wire integrated in wall; wall: permanently antistatic premium polyurethane (Pre-PUR®), resistant to aggressive wood types and wood preservatives

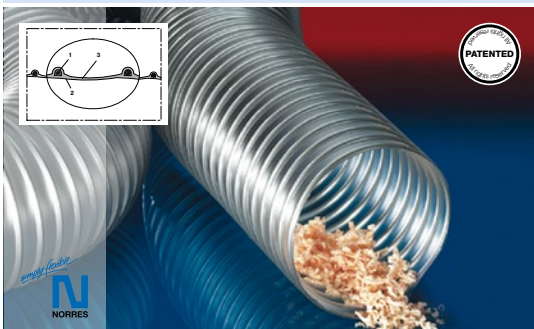
Wall thickness: 0,6mm

Ø: 1.57"/40mm - 15.70"/400mm

Accessories: 212, 210, 217, 213, 228, 223, 270-271



TIMBERDUC® PUR 532 CNC (MD)



ideal for: CNC machines, wood dust extraction, wood chips

- CNC machine hose
- medium-heavy duty
- increased pressure and vacuum resistance
- -40°C to $+90^\circ\text{C}$ ($+125^\circ\text{C}$)

Design, Material: patented PROTAPE® tape hose; spring steel wire integrated in wall; wall: premium polyurethane, resistant to aggressive wood types and wood preservatives, with flame-retardant additive (Pre-PUR®)

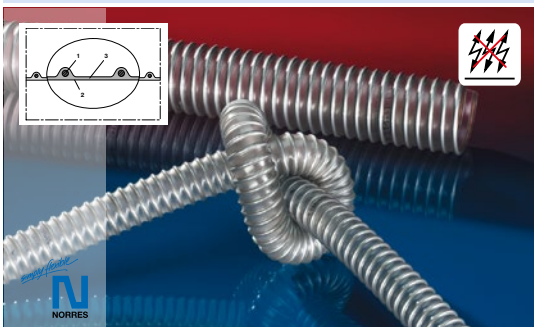
Wall thickness: 0,7mm

Ø: 8"/200-203mm - 15.70"/400mm

Accessories: 212, 217, 213, 228, 223, 270-271



TIMBERDUC® PUR 533 AS (MD)



ideal for: wood dust extraction, wood chips, parquet flooring grinding machines, vertical panel saws

- Polyurethane hose wood industry
- medium-heavy duty
- increased pressure and vacuum resistance
- microbe resistant
- flame-retardant according to: UL94-V2 & DIN 4102-B1
- conforms to the safety regulations of the German Wood Trade Association
- antistatic $<10^9 \Omega$
- -40°C to $+90^\circ\text{C}$ ($+125^\circ\text{C}$)

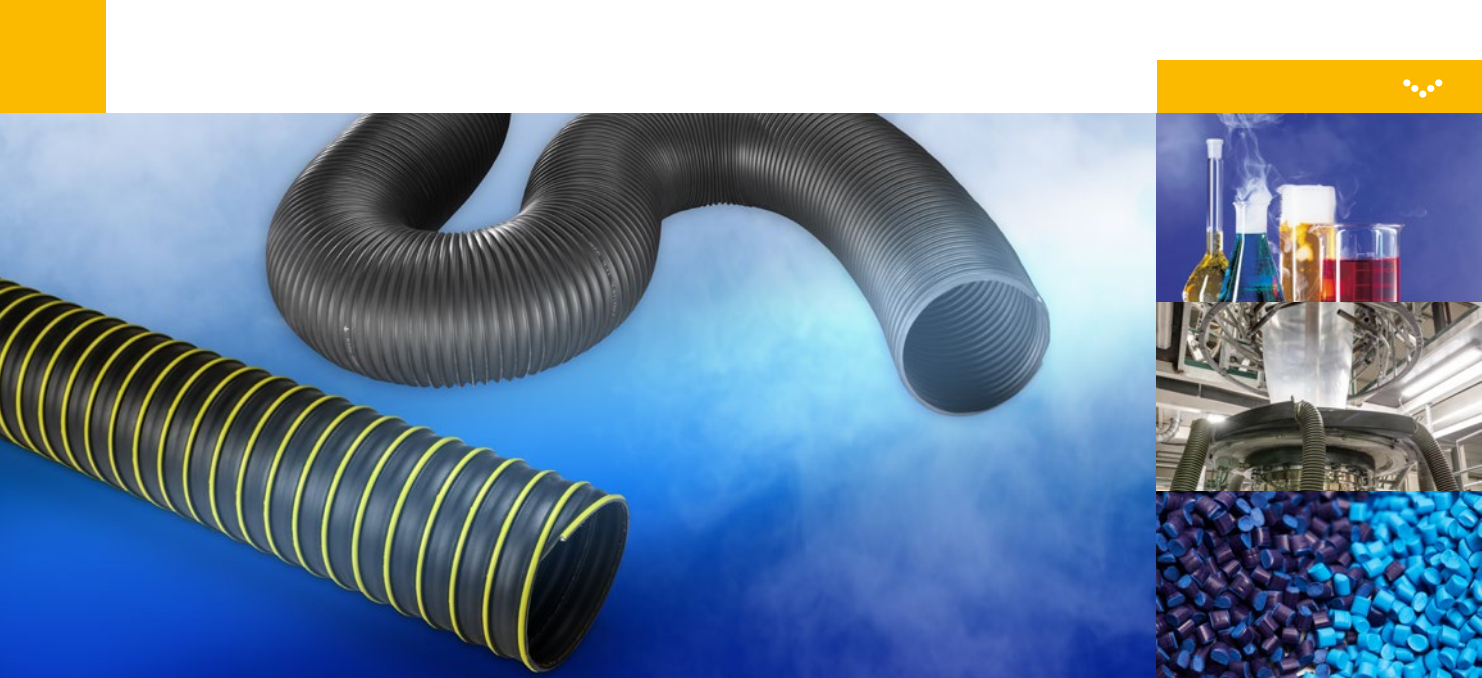
Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: permanently antistatic premium polyurethane (Pre-PUR®), resistant to aggressive wood types and wood preservatives

Wall thickness: 0,7mm

Ø: 1.57"/40mm - 15.70"/400mm

Accessories: 212, 210, 217, 213, 228, 233, 234, 240 + 241, 240 EC, 242, 243, 245, 246, 223, 270-271





TPE suction hoses and conveying hoses

Content

PROTAPE® TPE 320 AS (XLD)

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PROTAPE® TPE 320 HT (XLD)

TPE hose, light (up to +150°C) -40°C to 140°C [37](#)

PROTAPE® TPE 321 REINFORCED (LD)

TPE hose, light, fabric reinforced (up to +125°C) -40°C to 110°C [37](#)

AIRDUC® TPE 363 (MD)

TPE hose, medium-heavy (up to +150°C) -40°C to 125°C [37](#)

PROTAPE® TPE 320 AS (XLD)



- TPE hose
- super-light weight
- very good heat resistance
- good resistance to oil, gasoline and chemicals
- good resistance to alkalis and acids
- antistatic <10⁹ Ω
- -40°C to +125°C (+150°C)

Design, Material: PROTAPE® tape hose; spring steel wire integrated in wall; wall: thermoplastic rubber (TPE), antistatic

Wall thickness: 0,4mm

Ø: 2"/50-51mm - 12.40"/250mm

Accessories: 212, 210, 217, 213, 228, 223, 270-271



ideal for: steam soaking, granulate dryer, infrared dryer, UV dryer

PROTAPE® TPE 320 HT (XLD)



- TPE hose
- super-light weight
- very good heat resistance
- good resistance to oil, gasoline and chemicals
- good resistance to alkalis and acids
- -40°C bis +140°C (+150°C)

Design, Material: PROTAPE® tape hose; spring steel wire integrated in wall; wall: thermoplastic rubber (TPE)

Wall thickness: 0,4mm

Ø: 1,5"/38mm - 11.8"/300mm

Accessories: 212, 210, 217, 213, 228, 223, 270-271



ideal for: hot air tube

PROTAPE® TPE 321 REINFORCED (LD)



- TPE hose
- light weight
- very good heat resistance
- good resistance to oil, gasoline and chemicals
- good resistance to alkalis and acids
- -40°C to +110°C (+125°C)

Design, Material: PROTAPE® tape hose; spring steel wire integrated in wall; fabric-reinforced tape; wall: EPDM/PP coated fabric

Wall thickness: 0,4mm

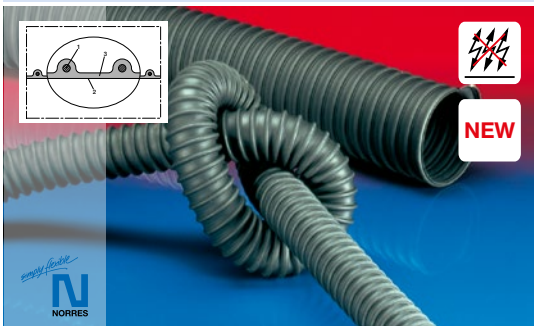
Ø: 2"/50-51mm - 11.80"/300mm

Accessories: 212, 210, 217, 213, 228, 223, 270-271



ideal for: steam soaking, granulate dryer, infrared dryer, UV dryer

AIRDUC® TPE 363 (MD)



- TPE hose
- medium-heavy duty
- very good heat resistance
- good resistance to oil, gasoline and chemicals
- good resistance to alkalis and acids
- -40°C to +125°C (+150°C)

Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: thermoplastic rubber (TPE)

Wall thickness: 0,8mm

Ø: 1.20"/30mm - 9.85"/250mm

Accessories: 210, 217, 213, 228, 223, 270-271



ideal for: steam irons, dedusting systems, film blowing machines, granulate dryer



PVC, PE, EVA suction and transport hoses

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PROTAPE® PVC 310 (LD)



- PVC suction hose
- light weight
- good resistance to alkalis and acids
- good resistance to chemicals
- -20°C to +70°C (+80°C)

Design, Material: patented PROTAPE® tape hose; spring steel wire integrated in wall; wall: high grade soft PVC

Wall thickness: 0,6mm

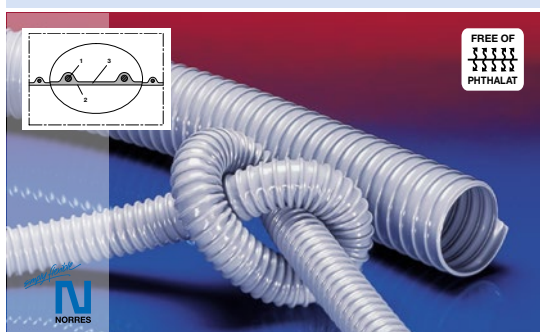
Ø: 1.20"/30mm - 11.80"/300mm

Accessories: 212, 210, 217, 213, 228, 223, 270-271



ideal for: extraction units, ventilation, galvanic extraction

AIRDUC® PVC 341 (MD)



- PVC suction hose
- medium-heavy duty
- good resistance to alkalis and acids
- -20°C to +70°C (+80°C)

Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: high grade soft PVC

Wall thickness: 0,9mm

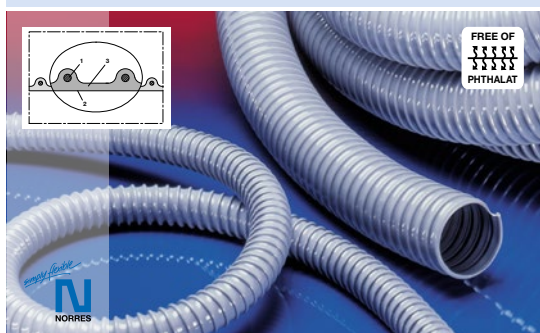
Ø: 0.80"/20mm - 13.80"/350mm

Accessories: 212, 210, 212 EC, 217, 213, 228, 240 + 241, 242, 243, 245, 246, 223, 270-271



ideal for: extraction units, galvanic extraction

AIRDUC® PVC 345 (HD)



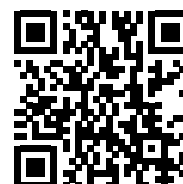
- PVC suction hose
- heavy duty
- increased pressure and vacuum resistance
- good resistance to alkalis and acids
- -20°C to +70°C (+80°C)

Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: high grade soft PVC

Wall thickness: 1,5mm

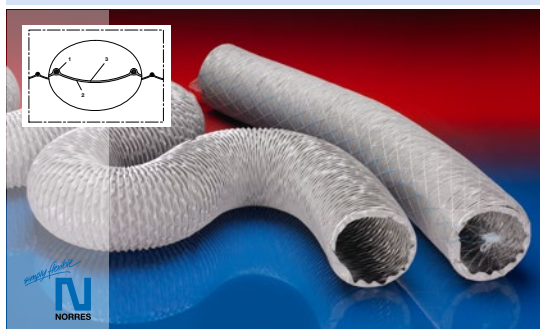
Ø: 0.80"/20mm - 13.80"/350mm

Accessories: 212, 212 EC, 217, 213, 228, 240 + 241, 242, 243, 245, 246, 223, 270-271



ideal for: extraction units, galvanic extraction

PROTAPE® PVC 371 (LD)



- PVC ventilation hose
- light weight
- good resistance to alkalis and acids
- good resistance to chemicals
- flame-retardant wall according to: NF P 92-503 M2
- -10°C to +80°C (+110°C)

Design, Material: PROTAPE® tape hose; spring steel wire integrated in wall; fabric-reinforced tape; wall: PVC coated fabric

Wall thickness: 0,25mm

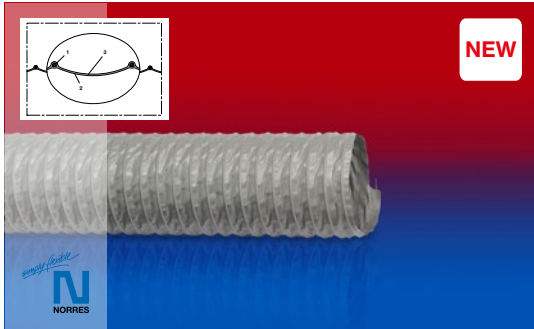
Ø: 1.57"/40mm - 20"/508mm

Accessories: 210, 208, 228, 223, 270-271



ideal for: extraction arms, asbestos sanitation, ventilation, construction drying, welding fume extraction

PROTAPE® PVC 371 (MD)



NEW

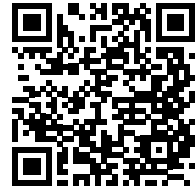
- PVC ventilation hose
- medium-heavy duty
- good resistance to alkalis and acids
- flame-retardant wall according to: NF P 92-503 M2
- -10°C to +80°C (+110°C)

Design, Material: PROTAPE® tape hose; spring steel wire integrated in wall; fabric-reinforced tape; Wall: PVC coated glass fabric

Wall thickness: 0,25mm

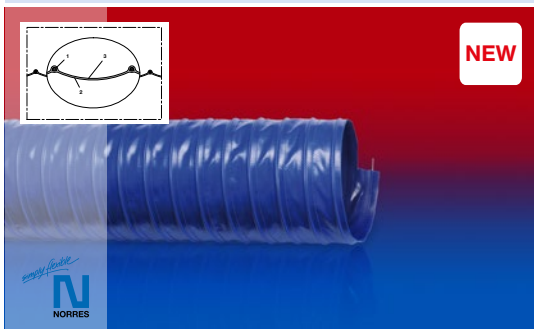
Ø: 2"/50-51mm - 23.6"/600mm

Accessories: 210, 208, 228, 223, 270-271



ideal for: extraction arms, asbestos sanitation, ventilation, construction drying, welding fume extraction

PROTAPE® PVC 371 (HD)



NEW

- PVC ventilation hose
- heavy duty
- approved to ISO3795 (self-extinguishing)
- -20°C to +90°C

Design, Material: PROTAPE® tape hose; spring steel wire integrated in wall; fabric-reinforced tape; wall: PVC coated fabric

Wall thickness: 0,5 mm

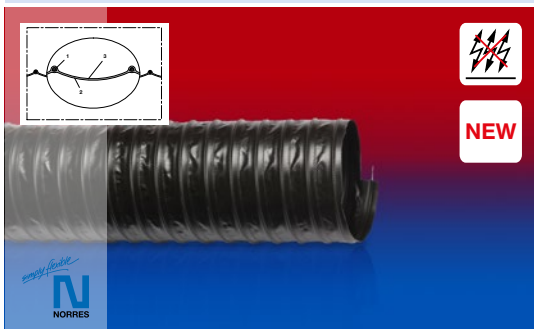
Ø: 2"/50-51mm - 17.7"/450mm

Accessories: 210, 208, 228, 223, 270-271



ideal for: extraction arms, asbestos sanitation, ventilation, welding fume extraction

PROTAPE® PVC 371 AS (HD)



NEW

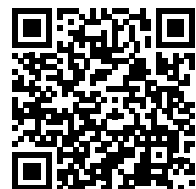
- PVC ventilation hose
- heavy duty
- flame-retardant according to: NF P 92-507 M2
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance $<10^9 \Omega$
- -20°C to +90°C

Design, Material: PROTAPE® tape hose; spring steel wire integrated in wall; fabric-reinforced tape; wall: PVC coated fabric

Wall thickness: 0,5 mm

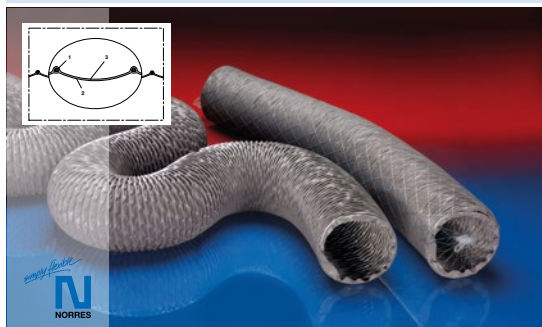
Ø: 2"/50-51mm - 17.7"/450mm

Accessories: 210, 208, 228, 223, 270-271



ideal for: extraction arms, ventilation

PROTAPE® PVC 371 HT (LD)



- PVC ventilation hose
- light weight
- very good heat resistance
- flame-retardant wall according to: NF P 92-503 M1
- -10°C to +110°C (+120°C)

Design, Material: PROTAPE® tape hose; spring steel wire integrated in wall; fabric-reinforced tape; Wall: PVC coated glass fabric

Wall thickness: 0,25mm

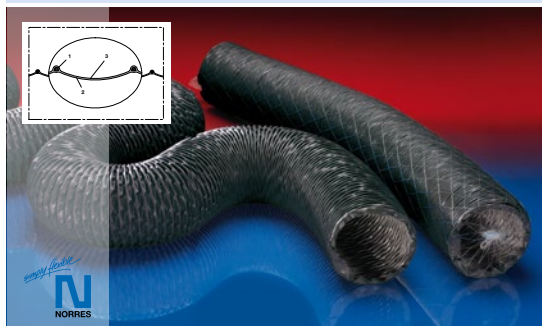
Ø: 2"/50-51mm - 12"/305mm

Accessories: 210, 208, 228, 223, 270-271



ideal for: extraction arms, ventilation, welding fume extraction

PROTAPE® PUR 370 (LD)



- Polyurethane ventilation hose
- light weight
- flame-retardant wall according to: NF P 92-503 M1
- -40°C to +125°C

Design, Material: PROTAPE® tape hose; spring steel wire integrated in wall; fabric-reinforced tape; wall: polyurethane coated fabric

Wall thickness: 0,25mm

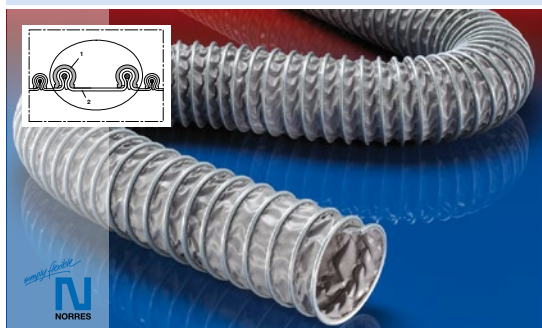
Ø: 2"/50-51mm - 10"/254mm

Accessories: 210, 208, 228, 223, 270-271



ideal for: extraction arms, ventilation, welding fume extraction

CP PVC 465



- PVC clip hose
- abrasion protection via external clamp profile
- good resistance to alkalis and acids
- flame-retardant wall according to: NF P 92-503 M2
- -10°C to +80°C (+110°C)

Design, Material: CP construction; clamp profile supporting spiral: galvanised steel; fabric-reinforced tape; wall: PVC coated fabric

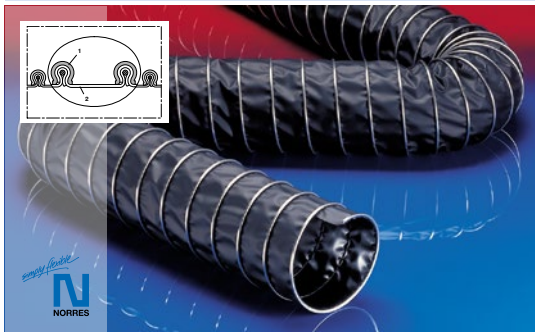
Ø: 1.5"/38mm - 40"/1016mm

Accessories: 212, 217, 213, 228, 270-271



ideal for: welding fume extraction

CP PVC 465 EC

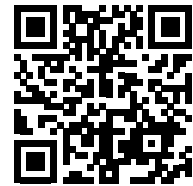


- Electrically conductive PVC clip hose
- abrasion protection via external clamp profile
- good resistance to alkalis and acids
- electrically conductive approx. $10^6 \Omega$
- -10°C to $+80^\circ\text{C}$ ($+110^\circ\text{C}$)

Design, Material: CP construction; clamp profile supporting spiral: galvanised steel; fabric-reinforced tape; wall: PVC coated fabric

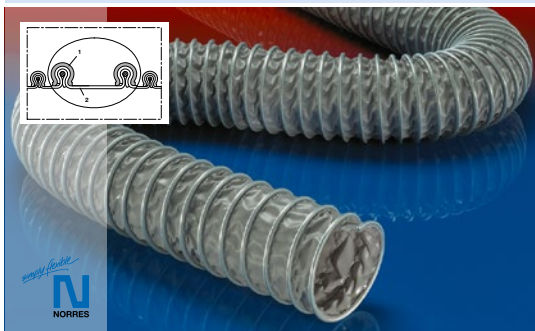
Ø: 2"/50-51mm - 40"/1016mm

Accessories: 212, 217, 213, 228, 270-271



ideal for: extraction of chemical vapours, vapour return hose

CP PVC 466 HT

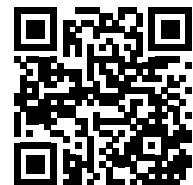


- PVC clip hose
- abrasion protection via external clamp profile
- very good heat resistance
- flame-retardant wall according to: NF P 92-503 M1
- -10°C to $+110^\circ\text{C}$ ($+120^\circ\text{C}$)

Design, Material: CP construction, clamp profile supporting spiral: galvanised steel; fabric-reinforced tape; Wall: PVC coated glass fabric

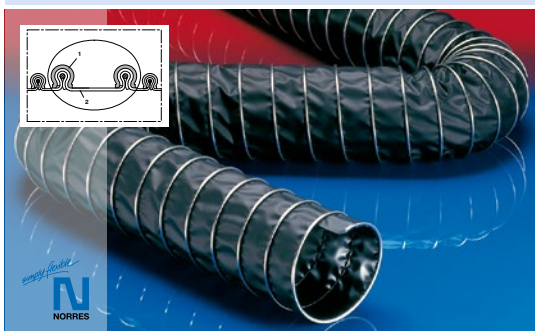
Ø: 1.5"/38mm - 40"/1016mm

Accessories: 212, 217, 213, 228, 270-271



ideal for: welding fume extraction

CP HiTex 467 WELDING



- Clip hose for flying sparks or welding sparks
- abrasion protection via external clamp profile
- extremely heat resistant
- flame-retardant
- -70°C to $+260^\circ\text{C}$ ($+280^\circ\text{C}$)

Design, Material: CP construction; clamp profile supporting spiral: galvanised steel; fabric-reinforced tape; wall: special-coated high-temperature fabric

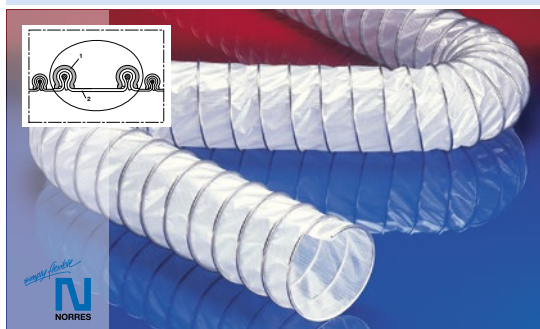
Ø: 2"/50-51mm - 40"/1016mm

Accessories: 212, 217, 213, 228, 270-271



ideal for: welding fume extraction

CP PE 457



- Polyethylene clip hose
- abrasion protection via external clamp profile
- odourless and tasteless
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- -35°C to +80°C

Design, Material: CP construction; clamp profile supporting spiral: galvanised steel; wall: polyethylene fabric (LDPE + HDPE)

Ø: 2"/50-51mm - 40"/1016mm

Accessories: 212, 217, 213, 228, 270-271



ideal for: asbestos sanitation, construction drying

CP PE 457 EC



- Electrically conductive polyethylene clip hose
- abrasion protection via external clamp profile
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- electrically conductive $<10^3 \Omega$
- -35°C to +80°C

Design, Material: CP construction; clamp profile supporting spiral: galvanised steel; wall: electrically conductive polyethylene (PE)

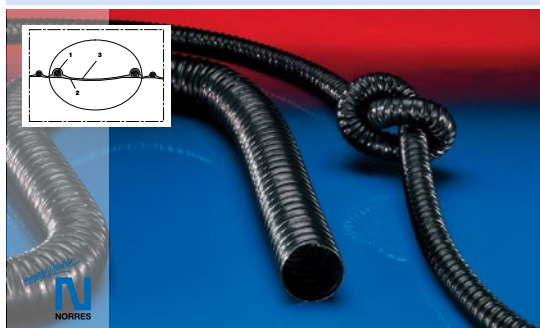
Ø: 1.5"/38mm - 40"/1016mm

Accessories: 212, 217, 213, 228, 270-271



ideal for: extraction of chemical vapours, explosion hazard areas

PROTAPE® PE 322 EC (XLD)



- Electrically conductive polyethylene hose
- super-light weight
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- electrically conductive $<10^3 \Omega$
- -35°C to +80°C

Design, Material: patented PROTAPE® tape hose; spring steel wire integrated in wall; wall: electrically conductive polyethylene (PE)

Wall thickness: 0,3mm

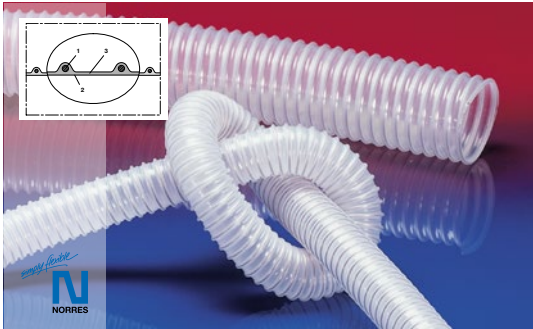
Ø: 1.57"/40mm - 11.80"/300mm

Accessories: 212, 217, 213, 228, 223, 270-271

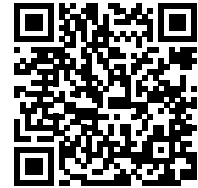


ideal for: extraction arms, mines, extraction of chemical vapours, explosion hazard areas, spray mist extraction, vapour return hose

AIRDUC® PE 362 FOOD (MD)



- Polyethylene food hose and pharmaceutical hose
- medium-heavy duty
- Food grade wall, complies with: FDA 21 CFR 177.1520 3.1 and 3.2, FCN741, EU-Directive 10/2011 and EC 1935/2004
- odourless and tasteless
- extremely good resistance to chemicals
- -35°C to +80°C



Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: special polyethylene (PE)

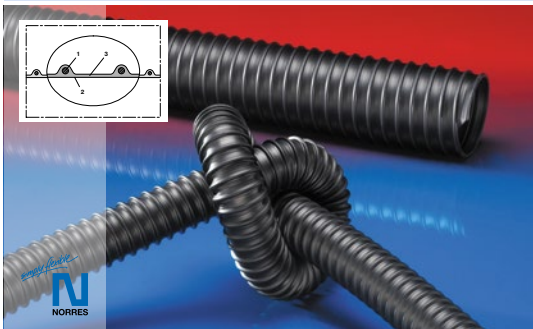
Wall thickness: 0,8mm

Ø: 1"/25mm - 9.85"/250mm

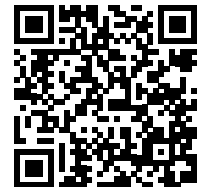
Accessories: 212, 210, 212 EC, 217, 213, 228, 223, 270-271

ideal for: extraction of chemical vapours, tobacco conveying

AIRDUC® PE 362 EC (MD)



- Electrically conductive polyethylene hose
- medium-heavy duty
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- electrically conductive $<10^3 \Omega$
- -35°C to +80°C



Design, Material: AIRDUC® profile hose; spring steel wire firmly embedded in wall; wall: electrically conductive polyethylene (PE)

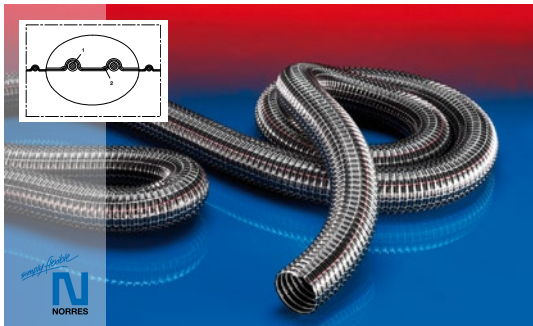
Wall thickness: 0,8mm

Ø: 1.25"/32mm - 11.8"/300mm

Accessories: 212, 210, 212 EC, 217, 213, 228, 223, 270-271

ideal for: extraction of chemical vapours, explosion hazard areas

SuperFlex PVC 372



- PVC suction hose
- light weight
- good resistance to alkalis and acids
- 0°C to +85°C



Design, Material: SuperFlex design; plastic coated spring steel wire; wall: high grade soft PVC

Ø: 1"/25mm - 4"/100-102mm

Accessories: 208, 228, 223, 226, 270-271

ideal for: construction drying, floor cleaning machines, industrial vacuum cleaners, welding fume extraction, scrubbing machine

EVA 373



- Vacuum cleaner hose
- light weight
- crush resistant
- floatable
- good resistance to alkalis and acids
- -45°C to +65°C

Design, Material: EVA design; self-supporting profile design; open profile geometry; wall: EVA

Ø: 0.80"/20mm - 2.36"/60mm

Accessories: 208, 228, 227



ideal for: industrial vacuum cleaners, vacuum cleaners

EVA 373 AS

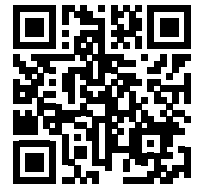


- Vacuum cleaner hose
- light weight
- crush resistant
- floatable
- good resistance to alkalis and acids
- surface resistance <10¹¹ Ω
- -25°C to +65°C

Design, Material: EVA design; self-supporting profile design; open profile geometry; wall: EVA

Ø: 0.80"/20mm - 2.36"/60mm

Accessories: 208, 228, 227



ideal for: industrial vacuum cleaners, vacuum cleaners

EVA 373 EC

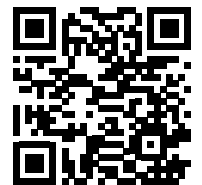


- Vacuum cleaner hose
- light weight
- crush resistant
- floatable
- good resistance to alkalis and acids
- surface resistance <10⁶ Ω
- -25°C to +65°C

Design, Material: EVA design; self-supporting profile design; open profile geometry; wall: EVA

Ø: 0.80"/20mm - 2"/50-51mm

Accessories: 208, 228, 227



ideal for: industrial vacuum cleaners, vacuum cleaners



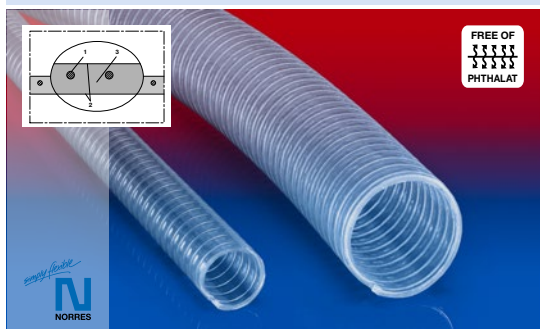
BARDUC® suction and pressure hoses

Content

BARDUC® PVC 381 FOOD (HD)

PVC hose, heavy, smooth interior and exterior, vacuum-proof-20°C to 70°C[47](#)

BARDUC® PVC 381 FOOD (HD)



- PVC food hose
- heavy duty
- very high pressure, vacuum and compression resistance
- Food grade wall, complies with: EU-Directive 10/2011, EC 1935/2004 and EU 2015/174, according to FDA 21 CFR 177.1210 and 175.300
- good resistance to alkalis and acids
- good resistance to chemicals
- -20°C to +70°C (+80°C)



Design, Material: BARDUC® design; spring steel wire spiral embedded in wall; smooth interior and exterior; wall: high grade soft PVC

Wall thickness: Ø10: 2,35mm, Ø12-16: 3mm, Ø18: 3,25mm, Ø19-22: 3,5mm, Ø25: 4mm, Ø30-42: 4,5mm, Ø45-60: 5mm, Ø63-70: 5,5mm, Ø76: 6,5mm, Ø80-102: 7mm

Ø: 0.40"/10mm - 4"/100-102mm

Accessories: 211

ideal for: foodstuff, agricultural industry, pharmaceutical, vacuum conveyor / vacuum conveying devices, caravans / camper