Branch catalogue for Industrial Hoses

NORRES INDUSTRIAL HOSES
RAW MATERIAL PROCESSING

Pre-PUR®

NORPLAST

AIRDUC®

PROTAPE®

IH 2018

MADE IN GERMANY

simply flexible

NORRES

HOSE TECHNOLOGY
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
- PROTAPE® PUR 330 AS
- PROTAPE® PUR 330 FOOD
- PROTAPE® PUR-INOX 330 FOOD-AS

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

Recommended by NORRES customers:
- AIRDUC® PUR 356 AS
- NORPLAST® PUR-C 386 AS

Proven Alternatives:
- AIRDUC® PUR 356 FOOD
- AIRDUC® PUR-INOX 356 FOOD-AS
- AIRDUC® PUR 356 EC
- AIRDUC® PUR 356 FOOD REINFORCED
- BARDUC® PUR-INOX 382 FOOD-AS
- NORPLAST® PUR 387
- NORPLAST® PUR-C 387 AS

Applications - raw material processing
Applications

- hose/ducting for high throughput of extremely abrasive bulk material, granulate and stone
- plastic industry, conveying of granulates and powders: granulate conveying equipment, vacuum hopper/convoyor, suction conveyor, dosing system, bulk-bag (big bag)-charging and discharging, shredder, mill, extruder, injection moulding machine
- suction vehicles: roof graveling, roof gravel conveying
- vacuum truck, suction vehicle, dry suction truck: industrial cleaning, furnace cleaning
- suction excavator
- explosion hazard area
- agricultural industry: pneumatic grain conveyer
- concrete pump: outlet hose, discharge hose
- industrial cleaning, furnace cleaning
- construction industry: rock drill, rock drilling machine
- raw material conveying hose for powders, granulates, sand, quartz, gravel, shards and chips/shavings
- compressor, side channel blower, vacuum pump, pressure pump, pump
- paper mill, paper and pulp industry, packaging machine: edge strip suctioning system/edge trim exhaust systems
- surface preparation: shot blasting/sand blasting recovery (blasting chamber), ship yard, stripping machine, flooring preparation machine, grinding machine
- silo, silo vehicle/silo truck, tanker/tank truck: silo charging, silo discharging
- silo, silo vehicles/silo truck, tanker/tank truck: conveying of wood pellets, plastic granulate, plastic powder
- suction: rock drill, rock drilling machine

Properties

- 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
- very good low temperature flexibility
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance <10⁹Ω and in accordance with TRGS 727 <2,5*10⁸Ω in accordance with ATEX 2014/34/EU and German TRGS 727: pneumatic transport of flammable dusts and bulk materials (Zone 20, 21, 22 inside), aspiration of combustible dusts (Zone 22 inside), for conveying flammable liquids (inside Zone 0, 1, 2), for conveying for non-flammable liquids, for use in zone 1 and 2 (gases), for use in zone 0 (gases)
- according to DIN 26057 Type 4
- conforms to RoHS guideline

Temperature range

- -40°F to 195°F
- short time to 255°F

Design, material

AIRDUC® profile hose
1. spring steel wire firmly embedded in the wall
2. wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)
3. wall thickness 0.08 - 0.10 inch approximate
4. reinforcement of the primary abrasion areas

Delivery variants

- further diameters and lengths available on request
- transparent (standard)
- special colors: full colored
- customer-specific branding

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### Accessories

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Applications
• food industry, pharmaceutical industry: food, pharmaceutical
• conveying of dry foods e.g. rice, cereals, sugar, milk powder, powders, coffee, tea, grains, flour, frozen foods
• mixer, dryer, packaging machine, bulk-bag (big bag)-charging and discharging, mill
• explosion hazard area
• screening machine/ sifting machine, vibration screening machine, plansifter, wind screener
• bellows, compensators

Properties
• highly flexible
• abrasion-resistant
• vibration resistant

• odorless and tasteless
• microbe and hydrolysis resistant
• good resistance to oil, gasoline, and chemicals
• very good low temperature flexibility
• permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance <10⁹ Ω
• in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: aspiration of combustible dust (zone 22 inside), for conveying of non-flammable liquids, for use in zone 1 and 2 (gases)
• manufacturing process acc. GMP EC 2023/2006
• conforms to RoHS guideline

Temperature range
• -40°F to 195°F
• short time to 255°F

Design, material
patented PROTAPE® tape hose
1. wall interior and exterior smooth
2. wall: permanently antistatic premium ether-polyurethane (Pre-PUR®)
3. wall thickness 0.04 inch approximate; wall interior smooth
4. grounding wire

Delivery variants
• further diameters and lengths available on request
• transparent (standard)
• customer-specific branding

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Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only. Additional information at www.norres.com/us/technology-us/

### Accessories

CLAMP 208  
CLAMP 211  
CONNECT 228  
CONNECT 270-271
**PROTAPE® PUR 301 AS**

**Applications**
- flexible hose/ducting for gases and for abrasive dust, powder, fibers
- extraction unit, dust collection systems, filter system, oil mist extraction
- extraction arm
- chemical industry: chemical vapors, vapor return hose at loading arm, paint steam, spray mist extraction
- explosion hazard area
- animal stall, animal shed: barn ventilation
- explosion hazard area
- clean room ventilation, semiconductor production machine
- bus, utility vehicle, caravan/trailer, mobile home/motorhome

**Properties**
- super-light weight
- highly flexible + compressible 3:1
- abrasion-resistant
- microbe resistant
- good resistance to oil, gasoline, and chemicals
- very good low temperature flexibility
- flame-retardant according to: UL94-HB
- flame-retardant according to: DIN 4102-B1
- permanently antistatic wall: in accordance with ISO 8301 electrical and surface resistance <10⁹ Ω
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: aspiration of combustible dust (zone 22 inside), for conveying of non-flammable liquids, for use in zone 1 and 2 (gases)
- conforms to the safety regulations of the German Wood Trade Association
- according to DIN 26057 Type 1
- conforms to RoH5 guideline

**Temperature range**
- -40°F to 195°F
- In accord sense to ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: aspiration of combustible dust (zone 22 inside), for conveying of non-flammable liquids, for use in zone 1 and 2 (gases)

**Design, material**
- Antistatic polyurethane hose, super-light weight, microbe resistant + flame-retardant
- Pre-PUR® tape hose
- 1. spring steel wire integrated in the wall
- 2. wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)
- 3. wall thickness 0.02 inch approximate

**Delivery variants**
- further diameters and lengths available on request
- transparent (standard)
- special colors: partially colored, completely colored
- customer-specific branding
- ID 1”/25mm – 12”/305mm compressed packed
- Delivery variants
- in poly bag (low transportation cost / risk, minimum storage size), ID315 – 500mm not compressed

**I.D. / O.D. / Pressure / Vacuum / Bending / Weight / Stock length / Further production lengths / Order No.**

<table>
<thead>
<tr>
<th>I.D. (in)</th>
<th>O.D. (in)</th>
<th>Pressure 26057 (50% Elongation) psi</th>
<th>Vacuum DIN 26057 (axially fixed) inHG</th>
<th>Bending Radius in</th>
<th>Weight lbs./ft</th>
<th>Stock length ft</th>
<th>Further production lengths ft</th>
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**Applications**
- Flexible hose/ducting for gases and for abrasive dust, powder, fibers
- Printed circuit board drilling machines (PCB)
- Extraction unit, dust collection systems, filter system, oil mist extraction
- Extraction arm
- Chemical industry: chemical vapors, vapor return hose at loading arm, paint spray, steam mist extraction
- Explosion hazard area
- Textile industry: fiber extraction, spinning machine
- Explosion hazard area
- Chemical industry: chemical vapors, vapor return extraction arm
- Extraction unit, dust collection systems, filter
- Printed circuit board drilling machines (PCB)
- Flexible hose/ducting for gases and for abrasive dust, powder, fibers

**Properties**
- Lightweight and reinforced
- Highly flexible + compressible 3:1
- Abrasion-resistant
- Microbe resistant
- Good resistance to oil, gasoline, and chemicals
- Very good low temperature flexibility
- Flame-retardant according to: UL94-HB
- Flame-retardant according to: DIN 4102-B1
- Permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance <10⁹Ω
- In accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: aspiration of combustible dust (zone 22 inside), for conveying of non-flammable liquids, for use in zone 1 and 2 (gases)
- Conforms to the safety regulations of the German Wood Trade Association
- Conforms to RoHS guideline

**Temperature range**
- -40°F to 195°F
- Short time to 255°F

**Design, material**
- Patented PROTAPE® tape hose
- 1. Spring steel wire integrated in the wall
- 2. Wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)
- 3. Wall thickness 0.025 inch approximate

**Delivery variants**
- Further diameters and lengths available on request
- Transparent (standard)
- Special colors: partially colored, completely colored
- Customer-specific branding

---

**PROTAPE® PUR 330 AS**

**Antistatic polyurethane hose, light weight, microbe resistant + flame-retardant**

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**Table:**

<table>
<thead>
<tr>
<th>L.D.</th>
<th>O.D.</th>
<th>Pressure DIN 26057 (50% Elongation) psi</th>
<th>Vacuum DIN 26057 (axially fixed) inHG</th>
<th>Bending Radius</th>
<th>Weight lbs./ft</th>
<th>Stock length ft</th>
<th>Further production lengths ft</th>
<th>Order No.</th>
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### Accessories

- **CLAMP 212**
- **CLAMP 210 BRIDGE**
- **CLAMP 270-271**
- **CLAMP 217**
- **CLAMP 213**
- **CONNECT 228**
- **CONNECT 223**

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at www.norres.com. NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.
Food hose and pharmaceutical hose, light weight

**Applications**
- Flexible hose / ducting for gases and for abrasive dust, powder, fibers
- Food industry, pharmaceutical industry: food, pharmaceutical
- Conveying of dry foods e.g. rice, cereals, sugar, milk powder, powders, coffee, tea, grains, flour, frozen foods
- Mixer, dryer, packaging machine, bulk-bag (big bag)-charging and discharging, mill
- Extraction arm
- Clean room ventilation, semiconductor production machine
- Medical equipment / medical technology, health-care sector: cable protection conduit, air supply, hose, extraction hose

**Properties**
- Lightweight and reinforced
- Highly flexible + compressible 3:1
- Abrasion-resistant
- Approval acc. to EU-Directive 10/2011 (food simulants A, B, C or E and D2) and EC 1935/2004
- Odorless and tasteless
- Microbe and hydrolysis resistant
- Good resistance to oil, gasoline, and chemicals
- Very good low temperature flexibility
- Manufacturing process acc. GMP EC 2023/2006
- Conforms to RoHS guideline
- Conforms to RoHS guideline

**Temperature range**
- -40°F to 195°F

**Design, material**
- Patented PROTAPE® tape hose
  1. Steel spring wire integrated in the wall
  2. Wall: special premium ether-polyurethane (Pre-PUR®)
  3. Wall thickness 0.025 inch

**Delivery variants**
- Further diameters and lengths available on request
- Transparent (standard)
- Customer-specific branding

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**Food hose and pharmaceutical hose, light weight**

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<th>I.D. in / mm</th>
<th>O.D. in</th>
<th>Pressure DIN 26057 (50% Elongation) psi</th>
<th>Vacuum DIN 26057 (axially fixed) inHG</th>
<th>Bending Radius 3 in</th>
<th>Weight lbs./ft</th>
<th>Stock length ft</th>
<th>Further production lengths ft</th>
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www.norres.com
### PROTAPE® PUR 330 FOOD

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Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only. Additional information at www.norres.com/us/technology-us/

### Accessories

- CLAMP 212
- CLAMP 210 BRIDGE CLAMP
- CLAMP 217
- CLAMP 213
- CONNECT 228
- CONNECT 223
- CONNECT 270-271

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www.norres.com
**PROTAPE® PUR-INOX 330 FOOD-AS**

**Applications**
- Flexible hose/ducting for gases and for abrasive dust, powder, fibers
- Food industry, pharmaceutical industry; food, pharmaceutical
- Conveying of dry foods e.g. rice, cereals, sugar, milk powder, powders, coffee, tea, grains, flour, frozen foods
- Mixer, dryer, packaging machine, bulk-bag (big bag)-charging and discharging, mill extraction arm

**Properties**
- Lightweight and reinforced
- Abrasion-resistant
- Approval acc. to EU-Directive 10/2011 (food simulate E) and EC 1935/2004
- Odorless and tasteless
- Microbe and hydrolysis resistant
- Good resistance to oil, gasoline, and chemicals
- Very good low temperature flexibility
- Permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance \(<10^9\) Ω and in accordance with TRGS 727 \(<2.5\cdot10^4\) Ω in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: pneumatic transport of flammable dusts and bulk materials (Zone 20, 21, 22 inside), aspiration of combustible dusts (Zone 22 inside), for conveying for flammable liquids (inside zone 0, 1, 2), for conveying for non-flammable liquids, for use in zone 1 and 2 (gases), for use in zone 0 (gases)
- Manufacturing process acc. GMP EC 2023/2006 and 2 (gases), for use in zone 0 (gases)
- Conforms to RoHS guideline

**Temperature range**
- \(-40^\circ F\) to \(195^\circ F\)

**Design, material**
- Patented PROTAPE® tape hose
  - 1. spring steel wire integrated in the wall; spiral: stainless steel wire (INOX)
  - 2. wall: permanently antistatic premium ether-polyurethane (Pre-PUR®)
  - 3. wall thickness 0.025 inchapproximate

**Delivery variants**
- Further diameters and lengths available on request
- Transparent (standard)
- Customer-specific branding

---

**Table:**

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<th>Pressure (inHg)</th>
<th>Vacuum (inHg)</th>
<th>Bending Radius</th>
<th>Weight (lbs./ft)</th>
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### Applications
- hose/ducting for high throughput of extremely abrasive bulk material, granulate and stone
- vacuum truck, suction vehicle, dry suction truck: industrial cleaning, furnace cleaning
- explosion hazard area
- Coal mine, mine, tunnelling: ventilation, methane extraction
- raw material conveying hose for powders, granulates, sand, quartz, gravel, shards and chips/shavings
- silo, silo vehicle/silo truck, tanker/tank truck: silo charging, silo discharging

### Properties
- super-heavy duty
- extremely abrasion-resistant with reinforcement underneath wire and narrow hose pitch

### Electrically conductive polyurethane hose, super-heavy duty
- very high pressure, vacuum and compression resistance
- good resistance to oil, gasoline, and chemicals
- very good low temperature flexibility
- electrically conductive wall: electrical and surface resistance <10² Ω
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: pneumatic transport of flammable dusts and bulk materials (Zone 20, 21, 22 inside), aspiration of combustible dusts (Zone 22 inside), for conveying for flammable liquids (inside zone 0, 1, 2), for conveying for non-flammable liquids, for use in zone 1 and 2 (gases), for use in zone 0 (gases)
- according to DIN 26057 Type 4
- conforms to RoHS guideline

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AIRDUC® PUR 356 FOOD

### Applications
- Hose/ducting for high throughput of extremely abrasive bulk material, granulate and stone
- Food industry, pharmaceutical industry: food, pharmaceutical
- Conveying of dry foods e.g. rice, cereals, sugar, milk powder, powders, coffee, tea, grains, flour, frozen foods
- Vacuum conveying equipment, vacuum hopper, suction conveyor, dosing system
- Pelleting machines/tablet presses
- Mixer, dryer, packaging machine, bulk-bag (big bag)-charging and discharging, mill
- Agricultural industry: pneumatic grain conveyor
- Animal stall, animal shed: feedstuff conveying
- Agricultural industry: pneumatic grain conveyor
- Mixer, dryer, packaging machine, bulk-bag (big bag)-charging and discharging, mill
- Food industry, pharmaceutical industry: food, pharmaceutical

### Properties
- Super-heavy duty
- Extremely abrasion-resistant with reinforcement underneath wire and narrow hose pitch
- Very high pressure, vacuum and compression resistance
- Approval acc. to EU Directive 10/2011 (food simulants A, B, C or E and D2) and EC 1935/2004
- Odorless and tasteless
- Microbe and hydrolysis resistant
- Very good low temperature flexibility
- According to DIN 28657 Type 4
- Manufacturing process acc. GMP EC 2013/2006
- Conforms to RoHS guideline

### Temperature range
- -40°F to 195°F
- Short time to 255°F

### Design, material
- AIRDUC® profile hose
  1. Spring steel wire firmly embedded in the wall
  2. Wall: special premium ether-polyurethane (Pre-PUR®)
  3. Wall thickness 0.08 - 0.10 inch approximate
  4. Reinforcement of the primary abrasion areas

### Delivery variants
- Further diameters and lengths available on request
- Transparent (standard)
- Customer-specific branding

### Table

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<th>Pressure</th>
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Applications

• hose/ducting for high throughput of extremely abrasive bulk material, granulate and stone
• food industry, pharmaceutical industry: food, pharmaceutical
• conveying of dry foods e.g. rice, cereals, sugar, malt powder, powders, coffee, tea, grains, flour, frozen foods
• vacuum conveying equipment, vacuum hopper, suction conveyor, dosing system
• pelleting machines/tablet presses
• mixer, dryer, packaging machine, bulk-bag (big bag)-charging and discharging, mill
• agricultural industry: pneumatic grain conveyer
• animal stall, animal shed: feedstuff conveying
• paper mill, paper and pulp industry: waste water, air extraction
• iso, silo vehicle/ silo truck, tanker/ tank truck: silo charging, silo discharging

Properties

• super-heavy duty
• extremely abrasion-resistant with reinforcement underneath wire and narrow hose pitch
• very high pressure, vacuum and compression resistance
• Approval acc. to EU-Directive 10/2011 (food simulant E) and EC 1935/2004
• odorless and tasteless
• microbe and hydrolysis resistant
• good resistance to oil, gasoline, and chemicals
• very good low temperature flexibility
• permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance <10⁶ Ω and in accordance with TRGS 727 <2,5·10⁹ Ω
• in accordance with ATEX 2014/34/EU for flammmable liquids (inside zone 0, 1, 2), for conveying combustible dusts (Zone 22 inside), aspiration of combustible dusts (Zone 22 inside), for conveying for flammable liquids (inside zone 0, 1, 2), for conveying for non-flammable liquids, for use in zone 1 and 2 (gases), for use in zone 0 (gases)
• according to DIN 26057 Type 4
• manufacturing process acc. GMP EC 2023/2006
• conforms to RoHS guideline

Temperature range
• -40°F to 195°F

Design, material

AIRDUC® profile hose
1. spring steel wire firmly embedded in the wall; spiral: stainless steel wire (INOX)
2. wall: permanently antistatic premium ether-polyurethane (Pre-PUR®)
3. wall thickness 0.08 - 0.10 inch approximate
4. reinforcement of the primary abrasion areas

Delivery variants
• further diameters and lengths available on request
• transparent (standard)
• customer-specific branding

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Accessories

CLAMP 216
CLAMP 211
CONNECT 228
CONNECT SAFETY CLAMP ASSEMBLY 231
CONNECT PRESS ASSEMBLY 232
CONNECT MOULD ASSEMBLY 233
CONNECT THREAD FITTING 234
CONNECT 240 + 241 FOOD
CONNECT 243 FOOD
CONNECT 244 FOOD
CONNECT 245 FOOD
CONNECT 246 FOOD
AIRDUC® PUR 356 FOOD REINFORCED

Applications
• hose/ducting for high throughput of extremely abrasive bulk material, granulate and stone
• food industry, pharmaceutical industry: food, pharmaceutical
• conveying of dry foods e.g. rice, cereals, sugar, milk powder, powders, coffee, tea, grains, flour, frozen foods
• animal stall, animal shed: feedstuff conveying, feedstuff plant, animal feed transport
• raw material conveying hose for powders, granulates, sand, quartz, gravel, shavings and chips
• hose/ducting for high throughput of extremely abrasive bulk material, granulate and stone
• silo, silo vehicle/ silo truck, tanker/ tank truck: silo
• raw material conveying hose for powders, granulates, sand, quartz, gravel, shards and chips/shavings
• silo, silo vehicle/ silo truck, tanker/ tank truck: silo
• conveying of dry foods e.g. rice, cereal, sugar, milk powder, powders, coffee, tea, grains, flour, frozen foods
• food industry, pharmaceutical industry: food, pharmaceutical
•  hose/ ducting for high throughput of extremely abrasive bulk material, granulate and stone

Properties
• super-heavy duty and reinforced
• extremely abrasion-resistant with reinforcement underneath wire and narrow hose pitch
• very high pressure, vacuum and compression resistance
• Approval acc. to EU-Directive 10/2011 (food simulants A, B, C or E and D2) and EC 1935/2004
• odorless and tasteless
• microbe and hydrolysis resistant
• good resistance to oil, gasoline, and chemicals
• very good low temperature flexibility
• manufacturing process acc. to EU-Directive 2015/174

Temperature range
• -40°F to 195°F
• short time to 255°F

Design, material
AIRDUC® profile hose
1. spring steel wire firmly embedded in the wall
2. wall: premium ether-polyurethane (Pre-PUR®)
3. wall thickness 0.12 - 0.14 inch approximate
4. reinforcement of the primary abrasion areas

Delivery variants
• further diameters and lengths available on request
• transparent (standard)
• customer-specific branding

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I.D. in / mm O.D. Pressure Vacuum Bending Radius Weight Stock length Further production lengths Order No. in / psi inHG in lbs./ft ft ft
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- / 75 3.62 40.85 29.55 10.10 1.370 - 25 50 - 356-0075-5100
3 / 76 3.43 40.60 29.55 10.24 1.400 25 50 - 356-0076-5100
- / 80 3.82 38.50 29.55 10.63 1.545 - 25 50 - 356-0080-5100
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AIRDUC® PUR 356 FOOD REINFORCED
Food hose and pharmaceutical hose, super-heavy duty and reinforced
Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at www.norres.com. NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.
Antistatic food hose and pharmaceutical hose, super-heavy duty and reinforced, smooth interior and exterior, stainless steel (INOX)

Applications
- hose/ducting for high throughput of extremely abrasive bulk material, granulate and stone
- food industry, pharmaceutical industry: food, pharmaceutical
  - conveying of dry foods e.g. rice, cereals, sugar, milk powder, powders, coffee, tea, grains, flour, frozen foods
- vacuum conveying equipment, vacuum hopper, suction conveyor, dosing system
- pelleting machines/ tablet presses
- explosion hazard area
- animal stall, animal shed: feedstuff conveying,
  - explosion hazard area
- pelleting machines/ tablet presses
- vacuum conveying equipment, vacuum hopper,
  - food industry, pharmaceutical industry: food,
    - conveying of dry foods e.g. rice, cereals, sugar, milk powder, powders, coffee, tea, grains, flour, frozen foods
- silo, silo vehicle/ silo truck, tanker/ tank truck: silo
  - animal stall, animal shed: feedstuff conveying,
  - explosion hazard area
- pelleting machines/ tablet presses
- vacuum conveying equipment, vacuum hopper,
  - food industry, pharmaceutical industry: food,
    - conveying of dry foods e.g. rice, cereals, sugar, milk powder, powders, coffee, tea, grains, flour, frozen foods
- silo, silo vehicle/ silo truck, tanker/ tank truck: silo

Properties
- super-heavy duty
- highly abrasion resistant
- very high pressure, vacuum and compression resistance
- odorless and tasteless
- microbe and hydrolysis resistant
- good resistance to oil, gasoline, and chemicals
- very good low temperature flexibility
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance <10⁹ Ω and in accordance with TRGS 727 <2,5*10⁸Ω
- in accordance with ATEX 2014/34/EU
- permanently antistatic wall: in accordance with TRGS 727 <2,5*10⁸Ω
- in accordance with ATEX 2014/34/EU and German TRGS 727: pneumatic transport of flammable dusts and bulk materials (Zone 20, 21, 22 inside), aspiration of combustible dusts (Zone 22 inside), for conveying for flammable liquids (inside zone 0, 1, 2), for conveying for non-flammable liquids, for use in zone 1 and 2 (gases), for use in zone 0 (gases)
- manufacturing process acc. GMP EC 2023/2006
- conforms to RoHS guideline

Temperature range
- -40°F to 195°F

Design, material
BARDUC® design
1. spring steel wire spiral embedded in the wall; spiral: stainless steel wire (INOX)
2. smooth interior and exterior; wall: permanently antistatic premium ether-polyurethane (Pre-PUR®)
3. wall thickness 0.16 - 0.24 inch approximate depending on diameter

Delivery variants
- further diameters and lengths available on request
- transparent (standard)
- customer-specific branding

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Pressure</th>
<th>Vacuum</th>
<th>Bending Radius</th>
<th>Weight</th>
<th>Stock length</th>
<th>Order No.</th>
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<tr>
<td>in / mm</td>
<td>in</td>
<td>psi</td>
<td>inHG</td>
<td>in</td>
<td>lbs./ft</td>
<td>ft</td>
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</table>

Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Nortex reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only. Additional information at www.norres.com/us/technology-us/
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NORPLAST® PUR-C 387 AS

Applications
• hose/ducting for high throughput of extremely abrasive bulk material, granulate and stone
• vacuum truck, suction vehicle, dry suction truck: industrial cleaning, furnace cleaning
• explosion hazard area
• raw material conveying hose for powders, granulates, sand, quartz, gravel, shards and chips/shavings
• silo, silo vehicle/silo truck, tanker/tank truck: silo charging, silo discharging
• silo, silo vehicle/silo truck, tanker/tank truck: conveying of wood pellets, plastic granulate, plastic powder

Properties
• external abrasion protection via external helix (saves floor space, prolong service life, easy to use)
• extremely abrasion resistant
• very high pressure, vacuum and compression resistance
• good resistance to chemicals
• very good low temperature flexibility
• grounding wire for discharging of electrostatic charging
• electrical and surface resistance of the inliner <10⁹ Ω
• in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: pneumatic transport of flammable dusts and bulk materials (Zone 20, 21, 22 inside), aspiration of combustible dusts (Zone 22 inside), for conveying for non-flammable liquids, for use in zone 1 and 2 (gases), for use in zone 0 (gases)
• conforms to RoHS guideline
• -3°F to 160°F

Temperature range

Design, material
NORPLAST® full plastic hose
1. hard plastic spiral integrated in the wall; spiral: rigid PVC
2. smooth interior; wall: antistatic polyurethane inside layer 0.079 inch approximate, exterior soft PVC
3. grounding wire

Delivery variants
• further diameters and lengths available on request
• blue inner liner + transparent exterior wall (standard)
• special colors: colored spiral, full colored
• customer-specific branding

L.D. | O.D. | Pressure | Vacuum | Bending Radius | Weight | Stock length | Order No.
--- | --- | --- | --- | --- | --- | --- | ---
3 / 75-76 | 3.62 | 36.00 (-) | 26.60 (-) | 20.16 | 1.480 | 50 100 | 387-0076-2878
3.5 / 89-90 | 4.21 | 36.00 (-) | 26.60 (-) | 23.43 | 1.745 | 50 100 | 387-0090-2878
4 / 100-102 | 4.72 | 58.00 (-) | 26.60 (-) | 31.46 | 2.215 | 50 100 | 387-0102-2878
5 / 125-127 | 5.79 | 43.50 (-) | 26.60 (-) | 40.81 | 2.820 | 50 100 | 387-0127-2878
6 / 150-152 | 6.89 | 43.50 (-) | 26.60 (-) | 52.13 | 4.300 | 50 100 | 387-0152-2878

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Accessories

CLAMP 211

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