

Product: **Neocover 1175 Shrink Sleeve**

Productgroup: **Anti-Corrosion Materials**

### General description

Nitto Neocover 1175 is composed of a multi-layer, molecular cross-linked polyethylene outer layer and a special butyl rubber based compound inner layer, which activates thermally. The outer layer ensures mechanical protection. Under the influence of a propane gas flame, the uniform coated inner layer melts and forms, under the pressure of the shrinking PE, a tight and reliable corrosion protective seal. NC 1175: shrink percentage of the sleeve: 75 %.

### Construction



- Molecular cross-linked polyethylene backing
- Butyl-rubber based compound self-bonding layer
- White siliconised paper liner

### Characteristics

The product provides an excellent waterproof barrier. When heated, the inside coated adhesive flows and tightly bonds the sleeve to the pipe without leaving interstices. It provides a high chemical resistance, inert to alkalis, acids and sulphur. (ASTM D 543)

NC 1175 has a high mechanical resistance to stress cracking and weathering. A multi-layer structure provides extra prevention against pinhole penetration and in turn increases the impact strength. It adds reliability to the job.

Neocover 1175 is very user-friendly: low preheat temperature of only 60 °C required, easy and fast application, without requirement for special equipment and no primer is necessary.

NC 1175 exhibits good mechanical properties against pipeline disruption and soil stress and has a highly durable rest-shrink tension and a small shrink percentage in width.

It also has a high resistance against overheating.

Neocover 1175 is approved by Fernwärme Forschungs Institut Hannover E.V. according EN 489.

### Application

NC 1175 is used as corrosion protection of pipes and weldings. The shrink sleeves are designed for above, below ground and indoor applications such as: heat-insulated district heating pipe joints, power and telecommunication cable joints and lamp posts.

### Features

- excellent waterproof barrier
- high chemical resistance
- high mechanical resistance
- extra prevention against pinholes
- user-friendly
- good mechanical properties
- high resistance to overheating
- adds reliability to the job

**Properties**

		Test method
Specific gravity	0.94 g/cm <sup>3</sup>	ASTM D 792
Shrink capacity peripheral	75%	
Shrink capacity axial	10%	
Softening temperature (outer layer)	110 °C	ASTM D 1525
Breakdown voltage outer layer	35 kV/mm	ASTM D 149
Breakdown voltage inner layer	10.8 kV/mm	
Softening point (inner layer)	114 °C	ASTM D 36
Water absorption (inner layer)	0.06 weight%	ASTM D 570

**Availability**

Size, nominal diameter	Min. inside diameter delivered	Max. pipe diameter with 10% residual force
80	115	45
90	130	52
100	145	60
125	170	68
150	195	77
160	205	84
200	255	102
225	270	108
250	310	122
300	360	142
350	410	160
400	460	178
450	505	198
500	555	216
550	605	234
600	665	260
650	725	280
700	785	300
750	830	320
800	880	338
850	930	356
900	980	374
1000	1080	

Thickness before shrink of the outer layer: B= 0.9 mm, C= 1.2 mm, D= 1.5 mm

Thickness before shrink of the inner layer is 0.6 mm

Sleeve lengths: 150 / 225 / 300 / 450 / 600 / 750 / 900 mm

**Application guidelines**

An instruction manual is available.

Our technical center is always at your disposal for special application requests.  
Please contact us to make an appointment.

**Precautions**

All products manufactured by NITTO EUROPE NV are guaranteed to be free from defect at the time of shipping when tested according to NITTO EUROPE NV product specifications. Properties of the products are susceptible to change due to various influences such as composition and condition of the extrusion, impurities in or on the extrusion, temperature and humidity of storage and the surrounding environment during application etc. When the NITTO product is used in combination with other material, the user shall assure by his own tests the compatibility of the NITTO product in the resulting combination and whether the combination results in the expected performance.

**Packaging and storage**

The product should be protected against direct sunlight and extremes in temperature and humidity and stored upright in its original packaging. Once removed from its packaging, it should be protected against dust and other impurities.

**Test methods and results**

The properties of these products are determined in accordance with NITTO test methods. Detailed description of these methods are available on request. The above figures are average values, established to our best knowledge, but not to be used for specification purpose.

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Nitto Europe NV has obtained following certificates:

