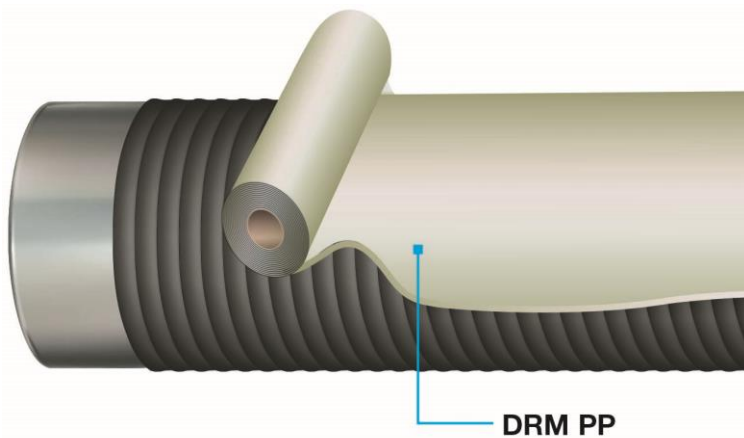


DEPROTEC® DRM PP500 Plus DEPROTEC® DRM PP1000 Plus



Product information



Special advantages:

- ✓ Can be used with high thermal loads >+50°C (+122°F).
- ✓ High mechanical resistance.
- ✓ Easy application.
- ✓ Resistant to rotting even in aggressive soils.
- ✓ Water and current permeable.
- ✓ Shock-absorbing and load-distributing.
- ✓ DEPROTEC® pipeline protection hose comes preassembled and ready to use.

Non-woven material made from plastic fibres to provide additional mechanical protection for corrosion prevention coatings on steel and cast iron pipelines, plastic pipes and plastic casing pipe connections in district heating systems.

For a century now, DENSO Group Germany has been representing experience, quality and reliability for corrosion prevention and sealing technology. The success of the internationally leading corporation is based on the development of the "DENSO-Tape", which was already patented in 1927 as the first product worldwide for the passive corrosion prevention of pipelines. Since then, the DENSO Group Germany has been establishing and guaranteeing the highest quality standards with technically trend-setting products. Research, development and production take place exclusively in Germany. Our employees continuously implement safe and individual solutions in a personal cooperation with the customer.

Product description

DEPROTEC®-DRM PP500 Plus & 1000 Plus rockshields and hoses are made from a non-woven polypropylene material. They are specially designed to provide additional mechanical protection on field joint and factory coatings. DEPROTEC®-DRM PP500 Plus & 1000 Plus boast high mechanical resistance and an outstanding ability to cope with high temperatures. Good permeability

for soil electrolytes guarantees undisturbed cathodic corrosion prevention along the pipeline. DEPROTEC®-DRM PP500 Plus & 1000 Plus form a reliable separating layer between the pipeline coating and the surrounding earth, ensuring that the load applied to the coating is minimised if the pipeline moves, for example as a result of temperature fluctuations.

DEPROTEC®-DRM PP500 Plus & 1000 Plus can be used with high thermal loads (>+50°C (+122°F)). DEPROTEC®-DRM PP500 Plus & 1000 Plus rockshields permit the partial or total omission of sand backfilling, depending on the soil conditions. All applicable standards and regulations relating to pipe embedding, trench backfilling and soil compacting must be followed.

Processing

DEPROTEC®-DRM PP is wrapped loosely around the object to be protected and joined at the overlap points by applying slight heat and pressure. The overlap should be approximately 10 cm wide. To provide

additional mechanical protection on welding seams, cutting widths of at least 500 mm are used to ensure that the field joint coating and the adjacent factory coating are covered. Rolls with a length of up to 50 m and a width of

2 m can be used for the additional mechanical protection of entire pipe runs. The rockshield will be rolled on the pipe and can be welded in the longitudinal overlap.

Typical product properties

Properties	Unit	DEPROTEC®-DRM PP Typical value		Test method
		500 Plus	1000 Plus	
Weight per unit area	g/m ²	500	1000	EN ISO 9864
Thickness (for an extra load of 2 kPa)	mm	4	7	EN ISO 9863-1
Elongation at break (longitudinal/transverse)	%	70/70	90/90	EN ISO 10319
Tensile strength (longitudinal/transverse)	kN/m	32/32	60/70	EN ISO 10319
Static puncture force (CBR)	kN	5,5	11	EN ISO 12236
Colour	-	white	white	-
Operating temperature	°C (°F)	-50 to +100 (-58 to +212)		-
Resistant against	-	Diluted acids and lyes, brines, soil bacteria		-

Improved resistance to mechanical stress in **DENSOLEN®** coatings using **DEPROTEC®-DRM PP1000 Plus**

Properties	Unit	DENSOLEN®-AS40 Plus (4 layers)/ DEPROTEC®-DRM PP1000 Plus Typical value
Indentation resistance, residual layer thickness	mm	2.0
Improvement of indentation resistance	%	> 200
Impact resistance	J	> 30
Improvement of impact resistance	%	> 100

Ordering information and packaging

DEPROTEC®-DRM PP500 Plus & PP1000 Plus are supplied on rolls. **DEPROTEC®-DRM PP1000 Plus** is also available as a

preassembled and sewn pipe protection hose for exceptionally easy and time-saving application.

A stronger option, **DEPROTEC®-DRM PP1500 Plus**, is available on request.

Product	Available roll widths	Available roll lengths
DEPROTEC®-DRM PP500 Plus	0.5 m; 1.0 m; 2.0 m	50.0 m
DEPROTEC®-DRM PP1000 Plus	0.5 m; 1.0 m; 2.0 m	25.0 m
Product	Available diameters (DN)	Available hose lengths
DEPROTEC® pipeline protection hose (made from DEPROTEC®-DRM PP1000 Plus)	40 - 400	6.25 m / 8.25 m / 12.25 m

Other dimensions available on request.

Storage

When stored in its original, unopened packaging, **DEPROTEC®-DRM PP** can be stored for at least 60 months after the manufacturing date.

Storage temperature: ≤+50°C (+122°F)

Store in a dry and frost-free location.

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