

## 60°C FRDP Heat Shrinkable Sleeve

FRDP wraparound heat shrinkable sleeve (HSS) with a separate closure patch is mainly used for field joint coating of underground 3LPE coated steel pipelines and thermal insulated pipelines.

FRDP wraparound HSS bonds the steel substrate, FBE primer and plant-applied polyethylene coatings excellently to form a continuous and durable corrosion protection system on the pipeline.

The shrink sleeve system consists of a two-component solvent-free epoxy primer, a wraparound heat shrinkable sleeve and a closure patch.

The heat shrinkable sleeve consists of a heat-recoverable radiation cross-linked polyethylene backing coated with a hot-melt adhesive layer.



### Technical Data

Property	Test temp.	Unit	Requirement	Testresult	Test method
Thickness	—	mm	$\geq 0.85 \times$ nominal value	-	Annex B ISO21809-3
Holiday detection at 5 kV/mm + 5 kV	—	—	no holiday	no holiday	Annex C ISO21809-3
Impact resistance (holiday detection at 5 kV/mm +5 kV )	23°C	J/mm	$\geq 5$	6	Annex D ISO21809-3
Indentation resistance	60°C	N/mm <sup>2</sup>	10.0	10.0	Annex E ISO21809-3
Pressure Residual thickness	—	mm	$\geq 0.6$	1.20	
Cathodic disbondment at 28 days	23°C	mm	$\leq 5.0$	4.8	Annex G ISO21809-3
	60°C	mm	$\leq 10$	8.9	
Peel strength at 10 mm/min to pipe surface and to polyolefin plant coating	23°C	N/mm	$\geq 4.0$	12.3	Annex H.1 ISO21809-3
	60°C	N/mm	$\geq 0.20$	0.5	

Peel strength at 10 mm/min to pipe surface and to plant coating after 100-day hot-water immersion test at $T_{max}$ limited as per Annex I	23°C	N/mm	$\geq 0.75$ $\geq 0.75$	0.85 0.84	Annex I and Annex H ISO21809-3
Lap shear strength at 10 mm/min	23°C	N/mm <sup>2</sup>	$\geq 1.0$	3.5	Annex J ISO21809-3
	60°C	N/mm <sup>2</sup>	$\geq 0.07$	0.18	
Thermal ageing resistance (aged at $T_{max} + 20$ °C) – Elongationatbreak( $E_{100}/E^{70}$ ) – Peel strength to pipe surface ( $P_{100}/P^{70}$ )	23°C	$E_{100}/E^{70}$	$\geq 0.75$	0.94	Annex M ISO21809-3
	23°C	$P_{100}/P^{70}$	$\geq 0.75$	0.92	

## Product Specification:

Catalogue No.	Specification (Backing/ Adhesive)	Catalogue No.	Specification
FRDP001	FRDPΦ168×450—1.2/1.0	FRDP007	FRDPΦ508×500—1.5/1.0
FRDP002	FRDPΦ219×450—1.2/1.0	FRDP008	FRDPΦ529×500—1.5/1.0
FRDP003	FRDPΦ273×450—1.2/1.0	FRDP009	FRDPΦ610×500—1.5/1.0
FRDP004	FRDPΦ325×450—1.5/1.0	FRDP010	FRDPΦ711×500—1.5/1.0
FRDP005	FRDPΦ355×500—1.5/1.0	FRDP011	FRDPΦ813×500—1.5/1.0
FRDP006	FRDPΦ426×500—1.5/1.0	FRDP012	FRDPΦ1220×500—1.5/1.0

**Note:** 1) Closure patch length and thickness are equal to sleeve axial length and thickness, respectively.

Closure patch width: 120 mm for pipe diameter Φ168 ~Φ355 while 150 mm for pipe > Φ355. Or offer as your request

2) The above specification offered above is for your reference only. The width here is width before recovery. If you need after shrinking width, pls. remark.

The design temperature, width and thickness can be offered according to special requirements.

3) The largest width can be offered is 900mm and the max. Length is 150M per roll. Generally speaking, we offer in pieces according to the pipe size or bulk roll as request. The ordinary length required are 10m, 20m and 30m per roll.

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