



## GFRST Heat Shrink Sleeves for Pipeline Corrosion Protection Purpose



### Description

**Anti-corrosion** heat shrink sleeve is made of radiation cross-linked polyolefin, extruded inside a layer of hot melt adhesive. It effectively protects exposed metal by sealing it against water, corrosive substance. It is typically used, out of corrosion resistant or heat preservation purposes, to protect the welding repaired mouth of underground or overhead steel tubes for oil and gas transportation and water and pollution discharge. Additionally, it also finds application in sealing pipe flange and hoop against corrosion.

### Features

- Excellent bonding capacity, compatible with different materials like steel, epoxy coating, 2PE, 3PE, 3PP, FBE, heat preservation jacket
- Long service life, good sealing capability
- Simple installation, quick wrap, beneficial to construction
- Preheat the epoxy primer to 40~60°C and begin the shelling-out process. Applicable to both dry and wet film construction.



## Technical Performance

| Properties                               | Unit | Typical data          | Test Method     |
|--|------|-----------------------|-----------------|
| tensile strength                         | MPa  | 20                    | GB/T 1040       |
| elongation at break                      | %    | 550                   | GB/T 1040       |
| Vicat softening point                    | °C   | 97.6                  | GB/T 1633       |
| brittle temperature                      | °C   | < -65                 | GB/T 5740       |
| electrical strength                      | MV/m | 36.9                  | GB/T 1408       |
| volume resistivity                       | Ω·m  | 1.36×10 <sup>13</sup> | GB/T 1410       |
| ESCR ( F50 , 50°C )                      | h    | ≥1000                 | GB/T 1842       |
| Resistance to chemical attack<br>(7days) |      |                       |                 |
| 10%HCl                                   | %    | 100                   | GB/T 23257-2009 |
| 10%NaOH                                  |      | 97                    |                 |
| 10%NaCl                                  |      | 98                    |                 |
| Heat aging ( 150°C,21days )              |      |                       |                 |
| tensile strength                         | %    | 19                    | GB/T 1040       |
| elongation at break                      | MPa  | 530                   |                 |

## Hot melt adhesive



| Test Method                 |      | Unit | Typical data | Test Method     |
|-----------------------------|------|------|--------------|-----------------|
| Lss (25°C)                  |      | MPa  | 2.73         | GB 7124         |
| Lss (50°C)                  |      | MPa  | 0.5          | GB 7124         |
| brittle temperature         |      | °C   | < -15        | GB/T 23257-2009 |
| peel strength<br>(PE/Steel) | 25°C | N/cm | 100          | GB/T2792        |
|                             | 50°C |      | 30           |                 |
| peel strength<br>(PE/FBE)   | 25°C | N/cm | 120          |                 |
|                             | 50°C |      | 35           |                 |
| peel strength (PE/PE)       | 25°C | N/cm | 110          |                 |
|                             | 50°C |      | 30           |                 |

## Dimensions

| Size             | Application for the pipe diameter(mm) | Outer diameter (mm) |
|------------------|---------------------------------------|---------------------|
| φ159*500-1.2/0.8 | φ159                                  | 209                 |
| φ219*500-1.2/0.8 | φ219                                  | 269                 |
| φ273*500-1.2/0.8 | φ273                                  | 323                 |
| φ325*500-1.2/0.8 | φ325                                  | 375                 |
| φ377*500-1.2/0.8 | φ377                                  | 427                 |
| φ426*500-1.5/0.8 | φ426                                  | 476                 |
| φ529*500-1.5/0.8 | φ529                                  | 579                 |



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|                   |       |      |
|-------------------|-------|------|
| φ630*500-1.5/0.8  | φ630  | 680  |
| φ720*500-1.5/0.8  | φ720  | 770  |
| φ813*500-1.5/0.8  | φ813  | 863  |
| φ920*500-1.5/0.8  | φ920  | 970  |
| φ1016*500-1.5/0.8 | φ1016 | 1066 |
| φ1220*500-1.5/0.8 | φ1220 | 1270 |