

## HWS Heat shrinkable Welding Joint Sleeve For Pipeline

### Description

Heat shrinkable welding sleeving made by irradiation cross-linked polyolefin base material and special sealing hot melt adhesive.

It has high mechanical strength, stable performance, aging resistance, anti chemical corrosion, sealing, strong adhesive strength, easy to operate, etc.



### Operation specification

When using the heat shrink sleeves, first preheat the pipeline up to 55°C~60°C, and then wrap the joint belt around the treated pipeline with the heat shrink joint belt, make sure that the heat shrink joint belt lap width is more than 50mm, it will shrink at radial direction when the heat effects on it, at the same time the hot melt adhesive start to melt, fill and cover the surface of the pipeline, form continuous and close anti-corrosion system with original pipeline anti-corrosion coating.

Executive Standard: SY/T0413-2002 and SY/T4054-2003 and GB-T23257-2009.



## Features & benefits

- 1, excellent adhesion ability, adhesion range is wide: can adhere with steel, PE, epoxy coating, etc.
- 2, strong in corrosion resistance: can effectively block a variety of medium permeability and corrosion, aging resistance, environment stress cracking resistance, resistance to UV irradiation.
- 3, High mechanical strength: compression resistance, shock resistance, shear resistance.
- 4, Wide use range: can instruct at -25~35°C temperature range.
- 5, No volatilization, safety in use, can save energy, can protect environment
- 6, Long service life.
- 7, Shrink fast, easy to operate, simple to install.
- 8, low preheat temperature: when preheat -55°C~60°C, can install it to shrink.

## Product dimension

Model	Outer diameter.(MM)	Width ((MM)	Base film thickness (MM)	Heat melt thickness (MM)	Length (MM)	Fixed width(MM)	Sacrifice width(MM)
HWS 159	Φ159	500	1.2	1.0	680	100	≥150
HWS 219	Φ219	500	1.2	1.0	900	120	≥150
HWS 273	Φ273	500	1.2	1.0	1070	120	≥150
HWS 325	Φ325	500	1.2	1.0	1260	120	≥150
HWS 355	Φ355	500	1.2	1.0	1360	120	≥150
HWS 406	Φ406	500	1.5	1.0	1520	150	≥200
HWS 426	Φ426	500	1.5	1.0	1600	150	≥200
HWS 508	Φ508	500	1.5	1.0	1900	150	≥200
HWS 529	Φ529	500	1.5	1.0	1940	150	≥200
HWS 610	Φ610	500	1.5	1.0	2220	150	≥200
HWS 711	Φ711	500	1.5	1.0	2560	150	≥200

Other bigger size can be custom-made according to customer' requests.

**Product properties**

Test standard	GB/T23257-2009(Buried steel pipe polyethylene anti-corrosion technology standard)						
Text item			Unit	Test result	Technical date	Test method	
Base material							
Tensile strength	Axial direction		MPa	35	≥17	GB/T1040.2-2006	
	Circumference direction		MPa	28.3	≥17		
Elongation at break	Axial direction		%	456	≥400	GB/T1040.2-2006	
	Circumference direction		%	432	≥400		
Vicat softening point			°C	98.6	≥90	GB/T1633-2000	
Brittle temperature			°C	<-65	≥-65	GB5470-1985	
Electrical strength			MV/m	28	≥25	GB/T1408.1-2006	
Volume resistance			Ω.m	2.1×10 <sup>14</sup>	≥1×10 <sup>13</sup>	GB/T1410-2006	
environment stress cracking resistance (F50, 50°C)			h	>1000	≥1000	GB/T1842-1999	
Resistance to chemical medium corrosion (7d)	10% HC1	Axial direction	Tensile Strength	%	88.4	≥85	GB/T2357-2009
			Elongation at break	%	102	≥85	
		Circumference direction	Tensile Strength	%	95.3	≥85	
			Elongation at break	%	125.6	≥85	
	10% NaOH	Axial direction	Tensile Strength	%	168	≥85	
			Elongation at break	%	96.6	≥85	
		Circumference direction	Tensile Strength	%	112	≥85	
			Elongation at break	%	96.3	≥85	
	10% NaCl	Axial direction	Tensile Strength	%	98.5	≥85	
			Elongation at	%	89.4	≥85	

			break				
		Circumference direction	Tensile Strength	%	123	≥85	
			Elongation at break	%	106.3	≥85	
Heat aging resistance (150°C, 168h)	Axial direction		Tensile Strength	MPa	112	≥14	GB/T1040.2-2006
			Elongation at break	%	96.3	≥300	
	Circumference direction		Tensile Strength	MPa	98.5	≥14	
			Elongation at break	%	89.4	≥300	
Heat melt glue							
Peel strength (Cohesive failure)	To Epoxy resin primer steel		N/cm	105	≥ 100	GB/T2792-1998	
	To Polyethylene layer		N/cm	88.2	≥ 70		