HSTS—Tubular Type

Product profile

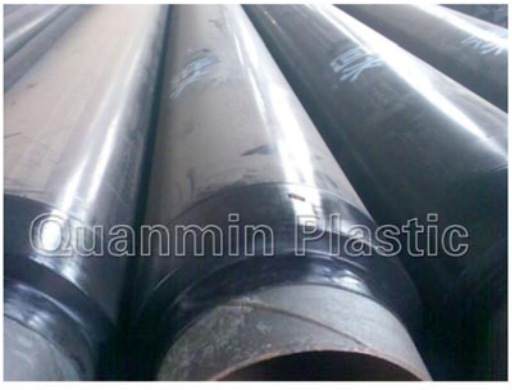
- Heat Shrinkable Tubular Sleeves (HSTS) consist of a cross-linked polyolefin backing, coated with an adhesive which effectively bonds to steel substrates and common pipeline coating including polyethylene and fusion bonded epoxy. Tubular type sleeves are installed before joining the pipe ends by sliding the coat from a free end of the pipe onto the area to be coated. It is designed for corrosion protection of flanges, bell and spigot joints and other high profile couplings.

Features & Benefits

- Heat Shrinkable Tubular Sleeves are superior performance heat shrinkable products designed for corrosion protection of flanges, bell and spigot joints and other high profile couplings.
- HSTS provide great corrosion protection, Superior resistance to Cathodic Disbondment and excellent durability against abrasion and chemical attack. The result is effective, good performance of sealing, wide application, easy to operate and preheating temperature low (50 ºC), long term protection against corrosion.
- Tubular design allows for convenient and fast installation because less time is spent handling the sleeve and closure
- Cross-linked backing provides superior abrasion, mechanical and chemical attack resistance.
- High performance adhesive provides excellent resistance to Cathodic Disbondment to ensure long-term corrosion protection

Properties of Melt Adhesive Sealant:

Physical Properties	Typical Values	Unit	Test Method
Thickness(min)	1.1(45) to1.6(65)	mm(mils)	ASTM D1000
Softening point	110（230）	ºC（℉）	ASTM E28
Lap shear strength At 23 ºC	2.8 (406)	Mpa(psi)	ASTM D1002
Lap shear strength At 80℃	0.18(26)	Mpa(psi)	ASTM D1002



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PE Properties of sleeve:

Physical Properties	Typical Values	Unit	Test Method
Width	300（12）to700（28）	mm(Inch)	ASTM D1000
Thickness(min)	0.6(24)to1.1(43)	mm(mils)	ASTM D1000
Specific gravity	0.93	g/cm^3	ASTM D792
Tensile strength	24(3480)	Mpa(psi)	ASTM D638
Elongation	700 ↑	%	ASTM D638
Hardness	50	Shore D	ASTM D2240
Volume resistivity	1×10^{15}	Ohm-cm	ASTM D257
Dielectric breakdown	32	KV	ASTM D149
Water absorption	0.1↓	%	ASTM D570
Water-vapour transmission	0.05↓	$g/ m^2\cdot24h$	ASTM E96

Properties of sleeve:

Physical Properties	Typical Values	Unit	Test Method
Thickness(min)	1.7(67)to2.7 (106)	mm(mils)	ASTM D1000
Impact Resistance	15↑	N·m	ASTM G14
Volume resistivity	1×10^{17}	Ohm-cm	ASTM D257
Dielectric breakdown	40	KV	ASTM D149
Water absorption	0.05↓	%	ASTM D570
Water-vapour transmission	0.05↓	$g/ m^2\cdot24h$	ASTM E96

Properties of Installed sleeve:

Physical Properties		Typical Values	Unit	Test Method
Thickness(min)		1.9(75) to 3.0(118)	mm(mils)	ASTM D1000
Impact Resistance		20	N·m	ASTM G14
Free longitudinal contraction		25	%	ASTM D2732
Peel strength	To Primer Steel	160	N/cm	ASTM D1000
	To PE Lining	100	N/cm	ASTM D1000
Cathodic Disbondment		15	mm	ASTM G8
Low Temp Flexibility		-32（-26）	ºC（℉）	ASTM D2671-C
Max. Operation Temperature		65（149）	ºC（℉）	-