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UNIONLEVER INTERNATIONAL GROUP

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ERIES

ANTICORROSION MATERIALS SERIES



ANTICORROSION
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Introduction

We have been manufacturing and exporting anticorrosion materials for a few years. By taking quality as the first and foremost factor in our organization development, our expertise team concentrates on quality management, technique improvement and innovation. In addition to the goods based on regular specification, we are capable of producing goods consistent to the customers' special requirement. We had exported to many countries, including: Iran, Russia, South-east Asia, etc. Due to our great responsibility to quality goods and service, we build up reputation in our customers group.

Our products include:

- Coal Tar Enamel & Primer
- Anticorrosion tape & Protective tape& Joint wrap tape
- Pipe wrap tissue& Outer wrap

We sincerely welcome partners around the world to establish business cooperation with us on the basis of mutual trust, benefit and development.

Outer Wrap
General Information

Standard DR538CT outer wrap is a glass fiber reinforced tissue impregnated with plasticized coal tar enamel and has successful track records exceeding 40 years. It offers complete protection against the elements encountered in both hot and cold climatic conditions of service. It protects the enamel against soil stresses, pipe movements and high water tables. It is rot and moisture proof which is ideal for submarine pipelines. DR538CT is suitable for most soil conditions.

Properties

- Rot and moisture proof
- Resistant to bacteria
- Controlled porosity
- High electrical resistance
- Reinforced and of high tensile strength



Technical Data

DR538CT	CMAA Standard	Typical Production Result
Finished Outer wrap characteristics		
Weight g/m2	min. 450	538
Thickness mm	min. 0.60	0.8
Tensile Strength Average		
Longitudinal N/50mm	min. 400	500
Transverse N/50mm	min. 150	250
Standards Met		
	British Gas PS/CWI Sec.4.3.3	
	British Standard BS 534:1990 Sec.26.6	
Base glass Type Weight g/m2	Reinforced non-woven tissue 50	

Technical Data

Item	Unit	WSH40R	WSH50R	WSH90R
Space Between Yarns	mm	25	25	25
Area Weight	g/m	50±4	60±5	90±6
Binder Content	%	<20	<20	<20
Thickness	mm	≥0.40	≥0.50	≥0.65
Tensile Strength MD	N/5cm	≥200	≥220	≥280
Tensile Strength CMD	N/5cm	≥75	≥90	≥140
Standard Measurement				
Width Length	m*m	1.0 *2500	1.0 *2000	1.0* 1500
Roll Diameter	cm	<117	<117	<117
Paper Core Internal Dia	cm	15	15	15

Properties

- Each roll of pipe wrap tissue to be shrinked with plastic film
- Note: The products with user's specification can be made.

Coal Tar Enamel

General Information

Coal Tar Enamel is black and supplied in solid form melting down, packed in steel drums or light metal based, silicone lined cardboard wall kegs. Depending on site location, it may also be possible to deliver in hot bulk loads by insulated road tankers.



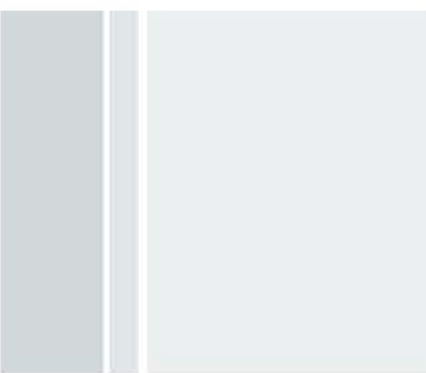
Properties

- Permanent Corrosion Protection
- Complete Resistance to Soil Bacteria and Marine Organisms
- Resistant to Root Growth Penetration
- Negligible Water Absorption
- High Electrical Resistivity
- Chemical Stability
- High Resistance to Petroleum Products
- Resistant to Cathodic Disbonding



Technical Data

ITEM	GRADE 105/8	GRADE 105/15	GRADE 120/5	GRADE 120/5S
Filler content by ignition, % by mass	25~35	25~35	25~35	25~35
Density at 25°C, g/cm ³	1.4 ~1.6	1.4 ~1.6	1.4 ~1.6	1.4 ~1.6
Softening point (ring and ball), °C	105~116	105 ~ 116	120 ~ 130	130 ~ 140
Penetration (total moving mass), 10 ⁻¹ mm				
25°C, 100g	5~12	10~20	1~9	1~8
45°C, 50g	8~30	15~55	3~16	3~16
Flow time, seconds				
230°C	9~16	9~16	-	-
240°C	-	-	9~24	12~30
Sag, maximum, mm				
70°C, 24h	1.5	1.5	-	-
80°C, 24h	-	-	1.5	-
95°C, 24h	-	-	-	3.0
Low temperature cracking and disbonding				
-30°C	-	None	-	-
-25°C	None	-	-	-
-20°C	-	-	None	None
Impact				
Disbonded area, maximum, mm ²				
0°C	-	15,000	-	-
25°C	10,000	-	-	-
Peel, initial and delayed, maximum, mm				
30°C	-	3.0	-	-
40°C	3.0	3.0	-	-
50°C	3.0	3.0	-	-
60°C	3.0	-	3.0	3.0
70°C	-	-	3.0	3.0



Pipe Wrap Tissue

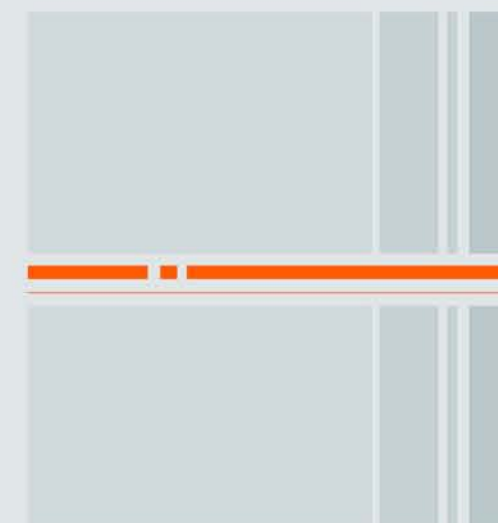
General Information

Pipe Warp tissue is used as base material for anticorrosion wrapping on steel pipelines that buried underground for oil or gas transportation. The oil or gas pipelines wrapped by this tissue preimpregnated with bitumen or coal tar enamel acquire excellent capabilities against leakage and aggressive media in the environment.



Properties

- High tensile strength,
- Good flexibility
- Uniform thickness
- Solvent resistance
- Moisture resistance
- Non-rotting and flame retardation



Technical Data

Type of the tape	T-365		T-380		T-3100		T-3130	
Thickness: (ASTM D 1000)	mm	mil	mm	mil	mm	mil	mm	mil
	0.64	25	0.76	30	1.02	40	1.27	50
Tensile:	21 lbs/in		31 lbs/in		41 lbs/in		52 lbs/in	
Width:	2",3",4",6",9"							
Colour:	Black, White,, Blue, Purple							
Elongation:	300%							
Adhesion to Backing of T- 100 (ASTM D 1000)	230 oz/in, 25N/10mm							
Cathodic Disbandment: (ASTM G8)	0.25 in radius 6.4mm							
Water Vapor Transmission Rate:(ASTM F1249)	0.2g/100in2/24 h,0.3mg/cm2/24h							
Water Absorption: (ASTM D570)	≤ 0.1							
Volume Resistively: (ASTM E257)	2.5x10 ¹² ohm*cm							
Dielectric Strength: (ASTMD149)	40KV							
Temperature Range: (Normal in Ground Service)	-30 to 160° F, -34 to 71℃							

Primer

General Information

CMAX Synthetic Primer -Type B is based on chlorinated rubber. It is very quick drying and can be applied by roller, rugs, brush, airless and conventional sprays. Its quick drying properties permit pipe sections to be hot coat and wrapped within minutes. It may be used for both internal and external priming of pipes.



Technical Data

It is pigmented black and comes ready for use within the viscosity limits as laid down by various worldwide pipeline specification. On no account should it be thinned.

Characteristics	Limits	Method of Test
Flow time(4mm flow cup) at 23°C	35 to 60 seconds	BS 3900:Part A6
Flash point (Abel closed cup), minimum	23°C	BS2000:Part 170
Volatile matter (105°C to 110°C), maximum	75% loss by mass	BS4164:1978 Appendix A
Drying Time@15°C	5-15mins	BS4164:1978 App. P

Shipping Specifications

Approximate weights only, drum weights may differ slightly:

CMAX Fast Drying Synthetic Primer –Type B		
	25 litre drum	200/210 litre drum
Gross Weight	27 kilos	229kilos
Net Weight	25 kilos	210 kilos
Measurement	48x28x28cm	89x59x59cm



Joint Wrap Tape

General Information

Joint wrap tape uses polyethylene as the base material which is coated by the liquid butyl rubber film, both of which are pressed and compounded. Usually its PE film is thinner than the one of anti-corrosion tape while the adhesive layer is much thicker. Joint wrap is used on pipe joints, fabrications, bends, fittings and tie bars.



Properties

- Excellent ability of anticorrosion
- Conformable to irregular shapes
- Wide rang of use
- Established in ground history
- Compatible with general coating systems.
- Lower cost

Technical Data

Type of the tape		T-240		T-250		T-265		T-280		T-2100		T-2130	
Thickness: (ASTM D 1000)	Total	mm	mil	mm	mil	mm	mil	mm	mil	mm	mil	mm	mil
		0.38	15	0.51	20	0.64	25	0.76	30	1.02	40	1.27	50
	Film	0.28	11	0.38	15	0.51	20	0.63	25	0.64	25	0.76	30
	Adhesive	0.10	4	0.13	5	0.13	5	0.13	5	0.38	15	0.51	20
Tensile:		29 lbs/in		39 lbs/in		39 lbs/in		53 lbs/in		66 lbs/in		78 lbs/in	
Width:		2",3",4",6",9"											
Colour:		Black, White, Red, Blue, Purple											
Elongation:		300%											
Adhesion to Backing of T-100 (ASTM D 1000)		46 oz/in, 5N/10mm											
Cathodic Disbandment: (ASTM G8)		0.25 in radius 6.4mm											
Water Vapor Transmission Rate: (ASTM F1249)		0.2g/100in2/24 h,0.3mg/cm2/24h											
Water Absorption: (ASTM D570)		≤ 0.1											
Volume Resistively: (ASTM E257)		2.5x10 ¹² ohm*cm											
Dielectric Strength: (ASTMD149)		40KV											
Temperature Range: (Normal in Ground Service)		-30 to 160° F, -34 to 71℃											

Anticorrosion Tape

General Information

Anticorrosion tape uses polyethylene as the base material which is coated by the liquid butyl rubber film, both of which are pressed and compounded. It is mainly used on underground, underwater and overhead pipeline. The major function is for anticorrosion of pipeline.



Properties

- Excellent ability of anticorrosion
- Conformable to irregular shapes
- Wide rang of use
- Established in ground history
- Compatible with general coating systems.
- Lower cost

Technical Data

Type of the tape		T-140		T-150		T-165		T-180		T-1100		T-1130	
Thickness: (ASTM D 1000)	Total	mm	mil	mm	mil	mm	mil	mm	mil	mm	mil	mm	mil
		0.38	15	0.51	20	0.64	25	0.76	30	1.02	40	1.27	50
	Film	0.25	10	0.3	12	0.33	13	0.38	15	0.51	20	0.64	25
	Adhesive	0.13	5	0.21	8	0.31	12	0.38	15	0.51	20	0.63	25
Tensile:		27lbs/in		31lbs/in		34lbs/in		39lbs/in		53lbs/in		66lbs/in	
Width:		2",3",4",6",9"											
Colour:		Black											
Elongation:		300%											
Peel Adhesion to Prime Pipe: (ASTM D 1000)		165 oz/in, 18N/10mm											
Cathodic Disbandment: (ASTM G8)		0.25 in radius 6.4mm											
Water Vapor Transmission Rate:(ASTM F1249)		0.2g/100in ² /24 h,0.3mg/cm ² /24h											
Water Absorption: (ASTM D570)		≤0.1											
Volume Resistivity: (ASTME257)		2.5x10 ¹² ohm*cm											
Dielectric Strength: (ASTMD149)		40KV											
Temperature Range: (Normal in Ground Service)		-30 to 160° F, -34 to 71℃											

Protective Tape

General Information

Protective tape uses polyethylene as the base material which is coated by the liquid butyl rubber film, both of which are pressed and compounded. The film of protective tape is thicker and higher in intensity. Protective tape will protect the pipe and anticorrosion tape surface from damages.



Properties

- Excellent ability of anticorrosion
- Conformable to irregular shapes
- Wide rang of use
- Established in ground history
- Compatible with general coating systems.
- Lower cost