Material Data Sheet

CoolMet® Insulation Jacketing is an exterior painted jacket for insulated pipelines. CoolMet uses an innovative PVDF (Poly Vinylidine Fluoride) paint system which focuses on improvement of 2 most important thermal properties, Emissivity and Reflectivity to ensure maximum heat radiation away from the surface, resulting in lower surface temperature of the pipeline. Apart from excellent radiative properties, CoolMet also exhibits exceptional weather resistance, abrasion and corrosion resistance along with high resistance to chemical attack, which makes this the best choice as metal jacket in applications like oil and gas processing and transportation, petrochemical plants, power stations and for all other applications in highly corrosive environments.

CoolMet is also available with a range of options for the underside of the jacketing:

- Polyester paint or other paint systems based on the specification
- DryMet moisture barrier to prevent galvanic corrosion of the jacketing
- SoundMet acoustic insulation for effective noise insulation to comply with ISO 15665

Standard CoolMet is produced in grey, other colours are available on requested. Most common base metals are Series 300, Stainless Steel and Aluminium, other metals are available as per project specification. Corrugated, embossed and other profiles are also available in CoolMet®

Property	Specification	Performance
Emissivity	ASTM C1371-11	0.90>
60° Specular Gloss	EN 13523-2	15-40 Units
Pencil Hardness	EN 13523-4	F-h minimum (Faber Castell)
Reverse Impact	EN 13523-5	160 inch pounds, no tape off
Adhesion after slow indentation	EN 13523-6	No tape off
Resistance to cracking (T-Bend)	EN 13523-7	0T no tape off
QUV Gloss Retention	EN 13523-10	100% Retention
MEK Rubs	EN 13523-11	>150 double rubs
Scratch Hardness	EN ISO 1518:2000	2.9 Kg
Humidity Test (1000 hrs)	BS-3900	No Body Blisters
Salt Spray Test (1000 hrs)	ASTM B-117-11	No Body Blisters, 1mm cut edge creep
Colour Retention		4 years 45° Sub Tropical Exposure

Safety:

There are no known health risks in handling CoolMet. For more details on safety, please refer to CoolMet MSDS available on our website.

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