



DRAGON JACKET INSULATION TECHNICAL DATA SHEET

CLOSED CELL FOAM | 100% POLYUREA ENCAPSULATION | IMPACT RESISTANT | 20+ YEAR LIFESPAN

Dragon Jacket Insulation's patented technology provides superior thermal protection and prevents corrosion under insulation (CUI). Built to withstand harsh environments, its impenetrable design delivers 20+ years of reliable performance in the field.

MATERIAL PROPERTIES – DRAGON JACKET STANDARD AND HIGH-TEMPERATURE INSULATION

PARAMETER	TEST METHOD(S)	STANDARD	HIGH-TEMP	UOM
Minimum Operating Temperature		-60	-40	F
Maximum Operating Temperature		275	350	F
R-Value (per inch)	ASTM C518/ASTM C177/EN 12667	6.25	6.25	hr-ft ² -F/BTU
Thermal Conductivity	ASTM C518/ASTM C177/EN 12667	0.16	0.16	Btu-in/hr-ft ² -F
Density	ASTM 1622/EN 1602/EN ISO 845	2	2	lb/ft ³
Compressive Strength	ASTM 1621/EN 826	22	22	psi
Tensile Strength	ASTM D638	>4,000	>5,200	psi
Water Absorption by Volume	ASTM C272	<0.6	<0.6	%
Surface Burning Characteristic	ASTM E84	<25	<25	FSI
Surface Burning Characteristic	ASTM E84	<450	<450	Smoke Development
Weatherability QUV	3000+ hour test	0 degradation	0 degradation	
Abrasion Resistance	ASTM D4060 (1 kg, 1,000 cycles)	62	62	mg lost

CHEMICAL RESISTIVITY – DRAGON JACKET STANDARD AND HIGH-TEMPERATURE INSULATION

PARAMETER	STANDARD	HIGH-TEMP
Acetic Acid 10%	Intermittent Contact	Intermittent Contact
Acetic Acid 40%	Not Recommended	Not Recommended
Acetic Acid 50%	Not Recommended	Not Recommended
Hydrochloric Acid 24%	Immersion, Splash, Spillage	Immersion, Splash, Spillage
Phosphoric Acid 50%	Immersion, Splash, Spillage	Immersion, Splash, Spillage
Sulfuric Acid 50%	Not Recommended	Not Recommended
Crude Oil	Intermittent Contact	Intermittent Contact
Diesel	Immersion, Splash, Spillage	Immersion, Splash, Spillage
Ethanol	Not Recommended	Not Recommended
Gasoline	Intermittent Contact	Intermittent Contact
Jet Fuel	Intermittent Contact	Intermittent Contact
Toluene 60%	Immersion, Splash, Spillage	Immersion, Splash, Spillage
Methanol	Not Recommended	Not Recommended
Skydrol	Not Recommended	Not Recommended
Xylene	Intermittent Contact	Intermittent Contact
Mineral Oil	Immersion, Splash, Spillage	Immersion, Splash, Spillage
Sodium Hydroxide 50%	Immersion, Splash, Spillage	Immersion, Splash, Spillage
Water	Immersion, Splash, Spillage	Immersion, Splash, Spillage



DRAGON JACKET
INSULATION

FDA Approved for Incidental Food Contact
Made in the USA with a 5-Year Limited Warranty

208-772-8640
info@dragonjacket.com
www.dragonjacket.com