



## DESCRIPTION

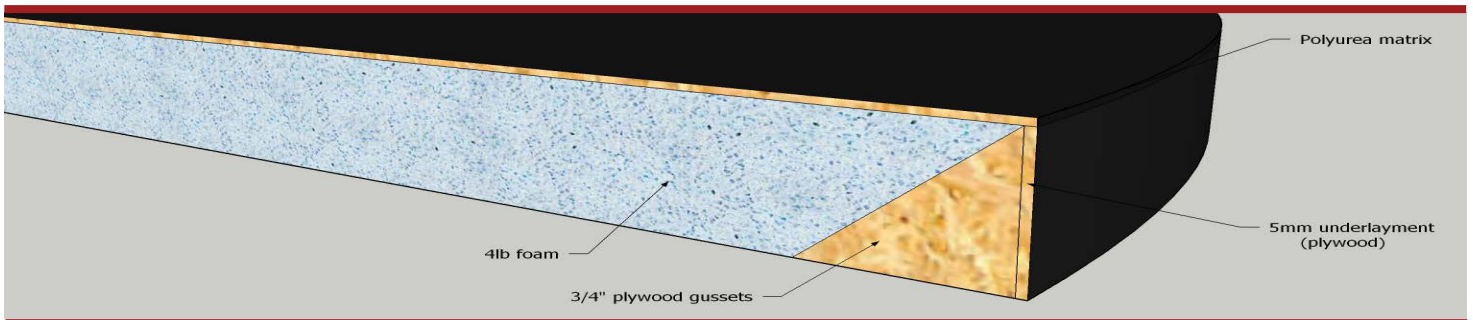
Dragon Jacket Insulation's Industrial Tank Bases are modular bases engineered for use with any above ground storage tank. Each base is fully encapsulated with a moisture impermeable and chemical resistant barrier which eliminates corrosive properties leading to CUI and drastically increases the lifespan of the tank. Both flat and sloped bases are available.



**SLOPED TANK BASES**



**FLAT TANK BASES**



**STATIC R-VALUE**  
12.53 PER 2 INCHES

**OPERATING TEMPERATURE RANGE**  
-60°F to +250°F (-50°C to +121°C)

**STATIC K-FACTOR**  
0.174 BTU-IN/HR-FT<sup>2</sup>-F

## FEATURES & BENEFITS

- ✓ Lowers total cost of ownership
- ✓ Increases operational efficiencies
- ✓ Withstands substrate expansion and contraction
- ✓ Faster/safer installation, no tools required
- ✓ Dimensional stability
- ✓ Bases ship ready for installation
- ✓ Immediate tank installation
- ✓ Durable
- ✓ Re-usable
- ✓ Waterproof and Chemical Resistant
- ✓ Modular and maintenance free for optimal performance
- ✓ Uniform weight distribution

## ELIMINATES

- ✓ Corrosive properties leading to CUI
- ✓ Water pooling around ring-wall foundation
- ✓ De-lamination of tank floor annular plate
- ✓ Hidden tank floor annular space
- ✓ Erosion due to inclement weather conditions
- ✓ Edge settlement beneath the tank shell

## MATERIAL SPECIFICATIONS

- ✓ 4lb. Foam
- ✓ Dragon Jacket S1™
- ✓ Dragon Jacket S4™
- ✓ 5mm Underlayment
- ✓ 48 Psi



**DRY STATIC COEFFICIENT OF FRICTION = 0.93**

**WET STATIC COEFFICIENT OF FRICTION >1.20**

## COLORS

Dragon Jacket S4™ is available in high pigment black and silver. Custom colors will be quoted upon request.

**TEST METHOD:** 3,000 hour QUV Test with 0 degradation. Longer term testing is ongoing, and results will be available upon request. *\*It should be noted that Dragon Jacket S4™ is an aromatic polyurea; therefore, as with all aromatics, color change and superficial oxidation will occur.*

## TYPICAL PHYSICAL PROPERTIES

DRAGON JACKET S1™	
Tensile Strength ASTM D412-06a	>4,250 psi (29 mpa)
Elongation ASTM D412-06a	>350%
Hardness (Shore A) ASTM D2240	97 ± 5
Hardness (Shore D) ASTM D2240	47 ± 5
100% Modulus ASTM D412-06	1,250 psi ± 100 (8 mpa)
300% Modulus ASTM D412-06	2,300 psi ± 100 (15 mpa)
Tear Resistance ASTM D624	420 PLI ± 50 (73 KN/m)

DRAGON JACKET S4™	
Tensile Strength ASTM D638	± 3,000 psi (21 mpa)
Elongation ASTM D638	± 100%
Hardness (Shore D) ASTM D2240-81	65 ± 5
Permeance ASTM D96-80	Perms-inch 0.007

## CHEMICAL RESISTANCE CHART

CHEMICAL	Recommended for Constant Contact		Recommended for Secondary Contact		CHEMICAL WEIGHT GAIN PERCENTAGES		
	24 Hours	7 Days	30 Days	60 Days	6 Months	1 Year	> 1 Year
Acetic 10%	0.0002%	0.03%	0.13%	0.11%			
Acetic 40%	0.38%	1.90%			7.32% (10 months)		
Acetic 50%					9.75% (11 months)		
Diesel	0.00%	0.00%	0.00%	0.01%			0.1% (3 years)
Ethanol					8.73% (3 months)		
Gasoline (unleaded)	0.07%	0.50%	1.40%	2.30%	5.16%		4.75% (17 months)
H2SO4 50% Sulfuric Acid	0.00%	0.00%				6.15%	
H3PO4 50% Phosphoric Acid	0.00%	0.001%	0.02%				
Sulfuric Acid 14% Phosphoric Acid 30%						2.36%	-0.86% (2 years)
HCl 24% Hydrochloric Acid	0.00%	0.01%	0.02%				
Jet Fuel JP - 1,2,3	0.00%	0.00%	0.00%	0.01%			1.4% (5 years)
JP-7 Jet Fuel with 60% Toluene	0.61%	2.41%	4.10%	4.93%	8.34%		8.67% (19 months)
NaOH Sodium Hydroxide	0.00%	0.001%		0.70%			2.36% (2 years)
Sodium Hypochlorite 12%					-1.5% (8 months)		
Water	0.00%	0.00%					
Methanol 99%	2.30%	3.41%			12.4%		9.12% (19 months)
Methanol 47% Ethanol 47.5% MIBK 5%	2.48%	4.19%	5.43%		8.13%		
Xylene	1.10%	4.60%		20.0%	21.63%		
Skydrol	0.39%	2.30%	4.93% (25 days)		13.7%	16.5%	

# INDUSTRIAL TANK BASE TECHNICAL DATA SHEET

PRELIMINARY

## HEAT FLOW METER THERMAL TRANSMISSION (R-VALUE)

Test Specimen ID	1
Test Duration (Minutes)	50
Average Heat Flux (Btu/hr·ft <sup>2</sup> )	3.99
Average Thermal Conductance - C (Btu/hr·ft <sup>2</sup> ·°F)	0.080
Average Thermal Resistance - R (hr·ft <sup>2</sup> ·°F/Btu)	12.53
Average Thermal Resistance - R <sub>si</sub> (m <sup>2</sup> ·K/W)	2.21
Average Thermal Resistivity - r (hr·ft <sup>2</sup> ·°F/Btu-in)	5.74
Apparent Thermal Conductivity - k (Btu-in/hr·ft <sup>2</sup> ·°F)	0.174
Specimen Average Thickness (inches)	2.183
†Specimine Average Density (lbs/ft <sup>3</sup> )	5.7

ASTM C518-10, Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus. †The density of the sample was determined by dividing the average weight of the sample by its volume. The weight was measured using a calibrated scale and the volume was determined by measuring the length, width, and height of a sample.