

Tank Pedestals

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- Pedestals to accommodate both 12' and 15'-6" diameter tanks
- A full 300 barrel tank weighs approximately 110,000 lbs. A 12' pedestal can support over 288,000 lbs. before it compresses $\frac{5}{8}$ "
- Ease of installation saves both time and labor
- Pedestals are cost effective when compared to gravel rings
- Custom sizes and shapes available

* Compressive properties of pedestals based on RADCO test data. Report No. 9088, April 26, 2012

Benefits

Product Benefits:

- Easily cleaned - Eliminates ground contact
- Non-permeable polymer coating with radius edge design quickly sheds water
- Quickly installed and adjusted by a two-man team, less man hours on location
- Insulating
- Nonconductive
- Non-corrosive - rot and mold resistant
- Truckload quantities

Environmental Benefits:

- Less disturbance to site
- Easy cleanup
- May be reused

Material Safety Data:

Section I Product Identification

Trade Name: STAR-R-FOAM*

Synonym: Expanded Polystyrene Foam

Chemical Family: Polystyrene

Section II Hazardous Material

None

Section III Physical Data

Boiling Point (°F): Not applicable

Vapor Pressure: Not applicable

Vapor Density: Not applicable

Solubility in Water: Insoluble

Specific Gravity (H₂O=1): 0.016

Percent Volatile by Weight: 0

Evaporation Rate: 0

Synonym: Solid/no odor

Section IV Fire & Explosion Data

Flash Point: Not applicable

Flammable Limits (LEL & UEL): Not applicable

Extinguishing Media: Dry chemical, CO₂, water, fog, foam

Special Fire Fighting Procedures: Do not enter fire

without proper protection

Unusual fire and explosion hazards: Heat from fire will melt foam and may cause dense smoke

Section V Health Hazard Data

Inhalation: Does not present a significant inhalation hazard under normal conditions

Eye Contact: Solid or dust may cause eye irritation

*Star-R-Foam is trademark of STARFOAM Manufacturing, Inc.



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 **NATIONAL OILWELL VARCO**

Tank Pedestals

PHYSICAL & THERMAL PROPERTIES					
TEST	METHOD	TYPE I	TYPE VIII	TYPE II	TYPE IX
Density (Minimum) (lb/ft ³)	ASTM C303	0.9	1.15	1.35	1.80
Thermal Conductivity Factor (K) (Btu/hr/ft ² /°F/in.) 75 °F	ASTM C518	0.28	0.26	0.25	0.24
Thermal Resistance (R)					
1-Inch Thickness at 75°F (ft ² -hr-°F/Btu)		3.85	4.0	4.17	4.35
3-Inch Thickness at 75°F (ft ² -hr-°F/Btu)	ASTM C518	11.1	11.9	12.8	13.1
5-Inch Thickness at 75°F (ft ² -hr-°F/Btu)		18.5	19.8	20.8	19.8
Coefficient of Thermal Expansion (in/in/°F)	ASTM D696	3.5 x 10 ⁻⁵	3.5 x 10 ⁻⁵	3.5 x 10 ⁻⁵	3.5 x 10 ⁻⁵
Water Vapor Transmission (Perm. In)	ASTM E96	5.0	3.5	3.5	2.5
Water Absorption (% Volume)	ASTM C272	4.0%	3.0	3.0	2.0
Oxygen Content (Minimum)	ASTM D2863	24%	24%	24%	24%
BTU Content (BTU/lb.)	ASTM D2015	16,655	16,655	16,655	16,655
Maximum Use temperature under continuous exposure 167 °F					
STRENGTH PROPERTIES					
TEST	METHOD	TYPE I	TYPE VIII	TYPE II	TYPE IX
Compressive Strength (psi)	ASTM D1621	10.0	13.0	15.0	25.0
Tensile Strength (psi)	ASTM D1623	16-20	17-21	18-22	23-27
Flexural Strength (psi)	ASTM C203	25.0	30.0	35.0	45.00
Shear Strength	ASTM D732	18-22	23-25	26-32	33-37
Shear Modulus		280-320	370-410	460-500	600-640
Modulus of Elasticity		180-220	250-310	320-360	460-500
FIRE TESTING					
Flame Spread*	ASTM E84	<75	<75	<75	<75
Smoke Development*	ASTM E84	<450	<450	<450	<450
Corner Room Burn	UBC 26-3	Acceptable for use in attics, roofs and crawl spaces as listed in ER 5315			
Fire Rating	ASTM E119	Acceptable in numerous UL design listings			

*Properties based on EPS bead properties SI Units: 1 inch = 25.4 mm, 1pdf = 16.018 kg/m³, 2ft²-hr-F/Btu = 0.176 m²-K/W

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