



Product Data Sheet

PRODUCT DESCRIPTION

Neogrip spheres are smooth, hard and offer excellent chemical resistance and low oil absorption. These and other characteristics enable the spheres to be used in a wide range of NEOGARD flooring systems in the transportation, automotive, chemical, electronic, industrial, and engineering industries.

TYPICAL PROPERTIES

Property	Value
Physical:	
Specific Gravity	2.5
Refractive Index	1.51
Free Iron Content, % max	0.1
Mechanical:	
Young's Modulus, 10 ⁶ psi	10
Rigidity Modulus, 10 ⁶ psi	4.3
Hardness (Moh)	6
Coefficient of Friction	0.9 - 1.0
Electrical:	
Dielectric Constant, 22°C, 10 ⁶ Hz	6.9
Loss Tangent, 22°C 10 ⁶ Hz	0.0085
Vol. Resistivity, 25°C, ohm-cm	6.5 x 10 ¹²
Thermal:	
Softening Point, °C	704
Expansion Coefficient, in/in/°C x 10 ⁻⁷	90
Thermal Conductivity (cal/(sec)(cm ²)(°C/cm) at 500°C)	0.0036
Composition %:	
SiO ₂ *	72.5
Na ₂ O	13.7
CaO	9.8
MgO	3.3
Al ₂ O ₃	0.4
FeO/Fe ₂ O ₃	0.2
K ₂ O	0.1

Property (continued)	Value
B ₂ O ₃	0.0
*No measurable free crystalline silica content as tested by ASTM C169	
Hydrolytic Leach Resistance**:	
Leachate pH	9.4
Leach Conductivity, (mmho/cm)	101.0
Leach Concentrations, (mg/cc)	
Total Alkali	25.7
Calcium	18.1
Boron	Trace
Silica	5.4
**One hour boil under reflux with deionized water	

GENERAL PRODUCT INFORMATION

Description	Results
Particle Size Distribution	
Range (microns)	150 - 250
US Mesh Size	60 - 100
Bulk Density (lbs/cubic ft) ASTM D3101-78	
Untapped	91
Tapped	98
Oil Absorption (g oil/100g. spheres) ASTM D1483	
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PACKAGING

Neogrip spheres are packaged in 50 pound bags.

HEALTH AND SAFETY

Read the Material Safety Data Sheet (MSDS) for detailed health and safety information. This product, when used with NEOGARD elastomeric coatings is intended for industrial use by properly trained professional applicators only.

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