

# Product Data Sheet

## 86500 (66XJB) Neogrip Spheres



<b>Description:</b>	86500 Neogrip Spheres (Hempel 66XJB) are glass spheres.
<b>Recommended use:</b>	86500 Neogrip Spheres are used in Neogard flooring systems to provide slip resistance.
<b>Features:</b>	Excellent chemical resistance. Low oil absorption.
<b>Availability:</b>	Available in North America. Not included in Group Assortment; other regions must confirm.

### Colors and packaging:

86500 (66XJB99980)	Neutral	50-lb bag
--------------------	---------	-----------

### Physical constants:

Size range	150–250 microns	
U.S. mesh size	60–100	
Bulk density, untapped	91 lbs/cu ft <sup>2</sup>	ASTM D3101
Bulk density, tapped	98 lbs/cu ft <sup>2</sup>	ASTM D3101
Oil absorption	18 lbs/cu ft <sup>2</sup>	ASTM D1483
Specific Gravity	2.5	
Refractive Index	1.51	
Free Iron Content, % max	0.1	
Young's Modulus, 106 psi	10	
Rigidity Modulus, 106 psi	4.3	
Hardness (Moh)	6	
Coefficient of Friction	0.9–1.0	
Dielectric Constant	6.9, 106 Hz @ 72°F (22°C)	
Loss Tangent	0.0085, 106 Hz @ 72°F (22°C)	
Volume Resistivity	6.5 x 10 <sup>12</sup> ohm-cm @ 77°F (25°C)	
Softening Point	1,299°F (704°C)	
Expansion Coefficient	90 in/in/°C x 10 <sup>-7</sup>	
Thermal Conductivity	0.0036 (cal/sec)(cm <sup>2</sup> )(°C/cm) @ 932°F (500°C)	
Composition:		
SiO <sub>2</sub> *	72.5%	
Na <sub>2</sub> O	13.7%	
CaO	9.8%	
MgO	3.3%	
Al <sub>2</sub> O <sub>3</sub>	0.4%	
FeO/Fe <sub>2</sub> O <sub>3</sub>	0.2%	
K <sub>2</sub> O	0.1%	
B <sub>2</sub> O <sub>3</sub>	0%	
Hydrolytic Leach Resistance:**		
Leachate pH	9.4	
Leach Conductivity	101 mmho/cm	
Leach Concentrations:		
Total Alkali	25.7 mg/cc	
Calcium	18.1 mg/cc	
Boron	Trace	
Silica	5.4 mg/cc	

\*No measurable free crystalline silica content as tested by ASTM C169. \*\*One hour boil under reflux with de-ionized water. The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Further technical information can be found at [www.neogard.com](http://www.neogard.com).

# Product Data Sheet

86500 (66XJB)  
Neogrip Spheres



## Application details:

Application method: According to Neogard Guide Specifications.

**Safety:** Handle with care. Before and during use, observe all safety labels on packaging, consult Neogard Safety Data Sheets and follow all local or national safety regulations.

**Note:** **86500 is for professional use only.**

Issued by: Hempel (USA) – 66XJB

This Product Data Sheet supersedes those previously issued.

Manufacturer warrants that the physical properties of the product reported above will meet the standards and deviations of the associated ASTM test method. MANUFACTURER HEREBY EXPRESSLY DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY AND/OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. Buyer must make its own determination of the suitability of any product for its use, whether such product is used alone or in combination with other materials. To the extent this or any of Manufacturer's products is proven to be defective, Buyer's sole remedy shall be limited to the replacement of such defective product, exclusive of any costs of labor. MANUFACTURER SHALL NOT BE LIABLE OR OBLIGATED FOR ANY LOSS OR CONSEQUENTIAL OR OTHER DAMAGE INCURRED DIRECTLY OR INDIRECTLY BY BUYER OR ANY OTHER PERSON OR ENTITY THAT ARISES IN ANY WAY IN RELATION TO THIS OR ANY OF MANUFACTURER'S OTHER PRODUCTS. Nothing contained herein shall be construed to constitute inducement or recommendation to practice any invention covered by any patent without authority of the owner of the patent. No Applicator is or should be viewed as an employee or agent of Manufacturer. 86500-PDS ksk 03032020.docx

Neogard®, a part of Hempel  
2728 Empire Central - Dallas, Texas 75235 - Phone (214) 353-1600 - Fax (214) 357-7532 - [www.neogard.com](http://www.neogard.com)