

Product Data Sheet

86500 (66XJB) Neogrip Spheres



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

Colors and packaging:

86500 (66XJB99980)	Neutral	50-lb bag
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Physical constants:

Size range	150–250 microns	
U.S. mesh size	60–100	
Bulk density, untapped	91 lbs/cu ft ²	ASTM D3101
Bulk density, tapped	98 lbs/cu ft ²	ASTM D3101
Oil absorption	18 lbs/cu ft ²	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 at 72°F/22°C	
Loss tangent	0.0085, 106 Hz at 72°F/22°C	
Volume resistivity	6.5 x 10 ¹² ohm-cm at 77°F/25°C	
Softening point	1,299°F (704°C)	
Expansion coefficient	90 in/in/°C x 10 ⁻⁷	
Thermal conductivity	0.0036 (cal/sec)(cm ²)(°C/cm) at 932°F/500°C	
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%	
B ₂ O ₃	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.

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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

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No.	Document Description
1	PDS
2	Guide Specification
3	Application Manual
4	Other Technical Support Information (i.e. summary application tables, troubleshooting guides, maintenance manuals, chemical resistance charts and other technical information)

In the event of a conflict between this PDS and the Additional Documents, the conflict shall be resolved in accordance with the order of priority set forth above. In addition, the buyer/applicator should refer to the relevant Safety Data Sheet current as of the time of delivery and available at www.neogard.com. Buyer/applicator is responsible for determining the suitability of the intended use of the Product, and Neogard disclaims all responsibility for any use, handling and storage of the Product that is not in accordance with the requirements set forth in the relevant PDS and the Additional Documents. The terms and provisions hereof apply to this PDS, the Additional Documents and any other documents supplied by Neogard in respect of the Product. The Product is supplied and all technical assistance is given subject to the General Conditions of Sale of Hempel Products and/or Services available at www.hempel.com. **NEOGARD MAKES NO OTHER WARRANTY THAT EXTENDS BEYOND THE WARRANTY REFERENCED THEREIN INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NEOGARD WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY OR CONDITION, OR THAT IN ANY WAY ARISE IN RELATION TO THE PRODUCT.** 86500-PDS ksk 04122021.docx

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