

# SOLGLIDE® Long-life Bearings

Superior Performance for  
Solar Tracking Systems



# SAINT-GOBAIN SOLAR SOLUTIONS

Saint-Gobain plays a key role in the solar power industry, especially in photovoltaic (PV) and concentrated solar power (CSP) technologies. Saint-Gobain Solar incorporates all activities of Saint-Gobain Innovative Materials relating to solar power plants.

Saint-Gobain Performance Plastics, a business unit of Saint-Gobain Innovative Materials, has introduced a maintenance-free bearing for the solar market. SOLGLIDE® bearings are specifically designed for CSP plants, applied at pivot points of all major CSP tracking systems. Proprietary fluoropolymer compounds in SOLGLIDE® bearings increase the long-term operational efficiency of solar equipment, reduce energy usage and decrease long-term costs.

SOLGLIDE® bearings offer a unique, thicker layer of fluoropolymer compounds, reducing friction on a constant level throughout the life of the bearing. Eliminating stick-slip effects in the tracking systems enables mirrors to move more easily and efficiently towards the sun, resulting in less energy usage.

Featuring superior corrosion and wear resistance, SOLGLIDE® bearings can last the lifetime of a CSP tower, usually around 25 years, with no maintenance costs. SOLGLIDE® bearings can be offered with different backing layers: normal steel protected with a proprietary corrosion protection system, aluminium or stainless steel. All types provide high resistance to harsh outdoor elements such as radiation, water and dust for further longevity benefits. Saint-Gobain engineers can also customise various parameters to meet specific applications.

To comply with environmental regulations, SOLGLIDE® bearings feature lightweight materials that are free of heavy metals and banned chemicals such as chromium VI and perfluorooctanoic acid (PFOA) materials. Additionally, the bearings operate without grease, eliminating the cost of cleaning drippings from the structures. Saint-Gobain's ability to produce bearings close to current and future primary markets has a positive impact on the Life Cycle Assessment (LCA) and carbon footprint of the product.

Users of SOLGLIDE® bearings benefit from the established global presence and extensive experience of Saint-Gobain, which has provided customised bearing solutions for automotive applications for over 30 years and is fully equipped to deal with the rapid scale-up required by the booming solar industry.

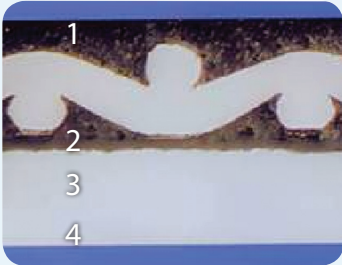


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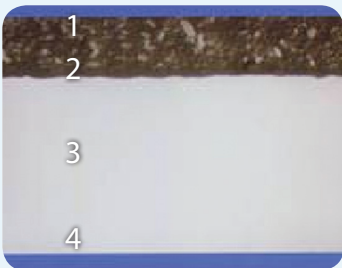
# SOLGLIDE® LONG-LIFE BEARINGS

SOLGLIDE® is a full line of high-performance bearing solutions, engineered and tailor-made according to your demands.

- Your tracking performance is optimized – SOLGLIDE® guarantees you low and constant friction over the life of the bearings.
- Your maintenance costs are decreased with our maintenance-free and 100% weather-resistant bearing solutions.
- You continue being innovative and meeting industry standards by utilising our engineering and testing facilities to find the ideal bearing solution.
- You can have confidence in our capabilities as we are experts in producing high volume AND high quality bearings. We are also highly certified and a market leader in many automotive and industrial markets.
- Your worldwide activities are supported by our global support, distribution network and production facilities.
- Your green technology needs a green product – SOLGLIDE® qualifies to all environmental legislations and is free of heavy metals.



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- 1 Specially developed compounds guarantee lowest friction and lowest stick-slip effects for smooth movements and extreme high wear resistance.
- 2 A high-tech bonding system creates extreme high load capabilities and resists all environmental influences. Special backings (steel with a proprietary coating, aluminium or stainless steel) are part of the unique product structure and guarantee decades of longevity.
- 3 An optional coating on the backing avoids contact corrosion to protect the housing material and also fulfills the highest corrosion requirements.
- 4



Parabolic trough application



**SOLGLIDE®**  
Bearings



For more information please call us.  
Alternatively email us at [solglide@saint-gobain.com](mailto:solglide@saint-gobain.com)

#### Manufacturing Sites:



Saint-Gobain do Brasil  
Ltda.  
Vinhedo-SP • Brazil  
Phone: (55) 192127 8534  
Fax: (55) 19 2127 8539



Saint-Gobain Performance  
Plastics Shanghai Co. Ltd.  
Shanghai • China  
Phone: (86) 2154 721568  
Fax: (86) 2154 725993



Saint-Gobain Performance  
Plastics Pampus GmbH  
Willich • Germany  
Phone: (49) 2154 600  
Fax: (49) 2154 60310



Grindwell Norton Ltd.  
Bangalore • India  
Phone: (91) 803097 8508  
Fax: (91) 802847 2905



Saint-Gobain KK-  
Performance Plastics  
Suwa, Nagano • Japan  
Phone: (81) 26679 6400  
Fax: (81) 26670 1002



Saint-Gobain Performance  
Plastics Corporation  
Saltillo • Mexico  
Phone: (52) 844866 1200  
Fax: (52) 844 180 8213



Saint-Gobain Performance  
Plastics  
Kolo • Poland  
Phone: (48) 63 2617 100  
Fax: (48) 63 2617 232



Saint-Gobain Performance  
Plastics Korea Co. Ltd.  
Seoul • South Korea  
Phone: (82) 2508 8200  
Fax: (82) 2554 1550



Saint-Gobain Advanced  
Materials (Taiwan) Co. Ltd.  
Taipei • Taiwan  
Phone: (886) 2250 34201  
Fax: (886) 2250 34202



Saint-Gobain Securit  
(Thailand) Co. Ltd.  
Rayong • Thailand  
Phone: (66) 3866 78007  
Fax: (66) 38667 892



Saint-Gobain Performance  
Plastics  
Rencol Ltd.  
Bristol • United Kingdom  
Phone: (44) 117 9381700  
Fax: (44) 117 9157982



Saint-Gobain Performance  
Plastics Corporation  
Wayne, New Jersey • USA  
Phone: (1) 973 696 4700  
Fax: (1) 973 696 4056

#### Sales Only Locations for Bearings



Saint-Gobain Performance  
Plastics  
Kontich • Belgium  
Phone: (32) 34582828  
Fax: (32) 34582669



Saint-Gobain Performance  
Plastics  
St Quentin Fallavier • France  
Phone: (33) 47494 8222  
Fax: (33) 47494 2341



Saint-Gobain Performance  
Plastics  
Agrate Brianza (Mi) • Italy  
Phone: (39) 0396 57891  
Fax: (39) 0396 52736



Saint-Gobain Performance  
Plastics  
Garden Grove, CA • USA  
Phone: (1) 714-995-1818  
Fax: (1) 714-688-2701



Saint-Gobain Performance  
Plastics  
Detroit, MI • USA  
Phone: (1) 248 888 8010  
Fax: (1) 248 888 8015

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[www.bearings.saint-gobain.com](http://www.bearings.saint-gobain.com)

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