



PPG HI-SIL[®] 134 Reinforcing Silica

INDUSTRIAL RUBBER

PPG HI-SIL[®] 134 silica is a white, synthetic, amorphous silicon dioxide used as a reinforcing filler in black or colored industrial rubber and highly filled tire tread formulations. It provides high tensile strength and tear and abrasion resistance. It is available in both powder and granule form.



Hi-Sil 134 silica – Typical Properties

	Hi-Sil 134	Hi-Sil 134G
Surface Area, BET-5	180	
CTAB Surface Area	160	
pH	6.3	
Na ₂ SO ₄ , Wt.%	2.0 Max	
Moisture, as packaged, Wt.%	5.0	6.0
Apparent Tamped Density (g/L)	330	
Screen Residue, Wt.%		
– On 40 mesh	0.01 Max	
– On 100 mesh	0.03 Max	
Physical Form	Powder	Granules

Potential Applications

- Conveyor Belts
- Wire and Cable Coatings
- Hoses
- Engine Mounts
- Seals and Gaskets
- Sporting Goods

Registration Numbers

231-545-4	European EINECS
CAS No. 7631-86-9	TSCA Chemical Substance Inventory (SiO ₂)
CAS No. 112926-00-8	Synthetic Precipitated Amorphous Silica

Industrial Rubber Applications

Hi-Sil 134 silica was compared to a competitive silica product (Silica A) of similar physical properties in NR, NBR, and EPDM compounds (see below). Hi-Sil 134 silica granules have a narrow particle size distribution. They are easy to convey, process well in internal mixers and generate little dust during handling and mixing. Hi-Sil 134 silica powder disperses well in lower-shear mixing processes such as on a two-roll mill.



Product Safety and Regulatory Information

For the latest product safety and regulatory information, please reference the Safety Data Sheets at www.ppgsilica.com.

Storage

To ensure product integrity, PPG recommends that our silica products be stored under dry, clean conditions and protected against exposure to other substances.

Since silica may pick up moisture we also recommend that products that are store more than one year, from date of manufacture, be re-tested for moisture content.

Safety and Health Effects

PPG recommends that, before use, anyone using or handling this product thoroughly read and understand the information and precautions on the label, as well as in other product safety publications such as the Safety Data Sheet. Any health hazard and safety information contained herein should be passed on to your customers or employees, as the case may be. The products mentioned herein can be hazardous if not used properly. Like all potentially hazardous materials, this product must be kept out of the reach of children.

Samples and Service

Our technical service specialists are available to answer your questions about the use, handling and storage of *Hi Sil* 134 silica.

Gallon containers and bag-size samples are available upon request from technical support.

Packaging

PPG HI-SIL® 134 silica is packaged as follows:

<i>Hi-Sil</i> Silica Product	Net Weight	Bag Construction
<i>Hi-Sil</i> 134G silica	25 kg (55 lbs)	Multi-wall paper bags
	360 kg (800 lbs)	Flexible Intermediate Bulk Container (FIBC)
<i>Hi-Sil</i> 134 silica	20 kg (44 lbs)	Multi-wall paper bags

Bags are unitized for shipping on pallets which are stretch wrapped with clear plastic film. Please consult customer service or your sales representative regarding additional packaging options, including custom package sizes and bulk shipments.

Visit www.ppgsilica.com for more information.



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