



SIPERNAT[®] and AEROSIL[®] in Technical Powders

Evonik. Power to create.



Your Benefits

Powdered products with good flowability are easy to handle and, thus, play an increasing role in different industries.

SIPERNAT® specialty silica and AEROSIL® fumed silica help to render a sticky powder free-flowing or convert liquid additives into highly concentrated dry liquids. Within our broad product portfolio we have solutions for almost every special requirement e.g. highly absorptive carriers, low-dust anti-caking aids, easy-to-disperse flow aids and many more. Our Applied Technology team is happy to support you to solve your individual challenge.

Our Offer – Your Value:

- Improved flowability
- Reduced caking tendency
- Low dust
- Precise addition levels
- Easy dispersibility
- Prolonged shelf life
- Increased productivity
- Constant quality
- Efficient spray drying
- Facilitated milling

Your Application

Convert your additive into an easy-to-handle dry liquid

Examples:

Industry	Carrier for
Construction chemicals	<ul style="list-style-type: none">• Asphalt cross linker• Liquid construction chemicals• Liquid leveling agents• Silicone oil or alike
Plastic additives	<ul style="list-style-type: none">• Antioxidants• Blowing agents• Liquid plastic additives (e.g. UPE¹)• Methacrylates• Peroxides• PVC stabilizers• Silanes• Silicone oil

Convert your additive into an easy-to-handle dry liquid

Examples:

Industry	Carrier for
Rubber additives	<ul style="list-style-type: none">• Cobalt octoate• Ethanol• Melamine resin• Peroxide
Other technical powders	<ul style="list-style-type: none">• Biocides for paints, etc.• Different types of resins• Liquid additives for different industries• Oxygen absorbers• Powder coatings

Achieve excellent flowability for your powder

Examples:

Industry	Flow- and anti-caking aid/Milling aid for
Construction chemicals	<ul style="list-style-type: none">• Construction chemicals• Leveling agents• Plaster, concrete, cellulose, glues, etc.• Solid plastic additives (e.g. EVA²⁾-resin)
Plastic additives	<ul style="list-style-type: none">• CPE³⁾• Lattice polymers• Polymer powder• PVC⁴⁾, PVC stabilizers
Rubber additives	<ul style="list-style-type: none">• Insoluble sulfur• Rubber recycling powder
Other technical powders	<ul style="list-style-type: none">• Additives for phosphate products• Cyanuric Chloride• Dicyan diamide• Hexamethylene tetramine• Low melting substances• Permanganate• Sodium bicarbonate• Starch• Technical salts

1) Unsaturated polyester

2) Ethylene vinyl acetate copolymer

3) Chlorinated polyethylene

4) Polyvinyl chloride

The power of SIPERNAT® and AEROSIL®

Our Service to you

- Product Quality and Product Safety
- Customer Proximity
- R&D, Applied Technology
- Technical Service
- Handling Technology
- Supply Security
- Logistics Concept
- Technical Literature



Types of Evonik Specialty Silica available for Chemical Products

Evonik Silica grade	Carrier	Free Flow, Anti-caking
SIPERNAT® 2200	++	
SIPERNAT® 22	++	
SIPERNAT® 22 S	+	+
SIPERNAT® 22 LS	+	+
SIPERNAT® 33	++	
SIPERNAT® 50	++	
SIPERNAT® 50S	+	++
SIPERNAT® 500 LS	+	+
SIPERNAT® 320	+	
SIPERNAT® 350 **	+	++
SIPERNAT® 360	+	+
SIPERNAT® 820 A		+
SIPERNAT® D 10 *		+
SIPERNAT® D 17 *		++
AEROSIL® 200 **	+	+
AEROSIL® 300	+	+
AEROSIL® 380	+	+
AEROSIL® R 972 *		+
AEROSIL® R 974 *		+
AEROSIL® R 202 *		+
AEROSIL® R 812 S *		++
AEROSIL® R 8200 *		++
AEROSIL® R 9200 *		+

* Hydrophobic grades + recommended

** Low dust anti-caking aid ++ highly recommended

For your information we provide the following literature:

- SIPERNAT® and AEROSIL® – an Essential in Industrial Powder Technology (TI 1360)
- SIPERNAT® specialty silica and AEROSIL® fumed silica as flow aid and anticaking agent (TI 1351)
- SIPERNAT® 350 – The low dust anti-caking aid (TI 1359)
- Converting Liquids to Dry Flowable Powders Using SIPERNAT® Specialty Silica (TI 1367)
- Specialty Silica as Flow Aid, Anticaking Agent and Carrier Substance – Recommended Mixing Procedures for Powders and Granulates (TI 1213)



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