RESIFA™ SOLESPHERE

RESIFA™ SOLESPHERE™ H-Series

Product Description

RESIFA™ SOLESPHERE™ H series is a synthetic spherical silica having low cohesiveness and high fluidity. We have two types of H series: normal type and high oil absorption type. The second type has over twice the absorption capacity of the first.

SOLESPHERE™ high oil absorption type has unique characteristics. It is very bulky and disperses easily. SOLESPHERE™ H series is available in a variety of particle sizes.

Normal Type

		H-31	H-51	H-121	H-201
Mean particle size	**µm**	3	5	12	20
Specific surface area	**m^2/g**	800	800	800	800
Pore volume	**mL/g**	1	1	1	1
Pore diameter	**nm**	5	5	5	5
Oil absorption	**mL/100g**	150	150	150	150
Bulk density	**g/mL**	0.18	0.23	0.33	0.36
Specific gravity	**g/mL**	2.16	2.16	2.16	2.16

High Oil Absorption Type

		H-52	H-122	H-33	H-53
Mean particle size	**µm**	5	12	3	5
Specific surface area	**m^2/g**	700	700	700	700
Pore volume	**mL/g**	2	2	2	2
Pore diameter	**nm**	10	10	11	11
Oil absorption	**mL/100g**	300	300	400	400
Bulk density	**g/mL**	0.11	0.16	0.08	0.09
Specific gravity	**g/mL**	2.14	2.14	2.12	2.12

INCI: Silica

Usage levels: 1-5%

Certifications: ECOcert/Cosmos

AGC Chemicals Americas, Inc.
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www.agcchem.com
Visit our website for compliance information and industry certifications.

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SOLESPHERE™ Particle Structure

- Spherical and non cohesive
- High oil absorption capacity unlike any other
- Applied as new functional material filler

Application Information

Cosmetics and Personal Care

SOLESPHERE™ silica gels are used as additives in cosmetic and personal care applications such as make-up, skin care products, deodorants and fragrances.

Resins and Polymer Compounds

When added to polymer formulations, SOLESPHERE™ silica gels offer anti blocking and improved dielectric insulation properties. SOLESPHERE™ also provides good UV and hardness properties as an additive for 3D resins.

Catalyst Supports

SOLESPHERE™ is used as a catalyst support carrier particularly with polyolefin manufacturing processes.

Paper Coating

By adding SOLESPHERE™ to paper coating formulations, surface hardness can be increased and matting effect improved.

Coatings

SOLESPHERE™ silica gels are used to improve the matting effect in coatings, as a thickener for paints, and for specialized paints for electronic materials.

RESIFA™ and SOLESPHERE™ are registered trademarks of AGC Inc.

Additional Information

Packaging

SOLESPHERE™ is packaged in a triple lined polyethylene bag contain in a cardboard carton. The box unit is 20 kgs for SOLESPHERE™ H-31, H-51 and H-121. For SOLESPHERE™ H-51, N-122, H-33 and H-53, the box unit is 10 kgs. There are 18 boxes per pallet.

Storage and Shelf Life

SOLESPHERE™ silica gels have a shelf life of 2 years from the date of manufacture when stored in the original, unopened package between 10 and 40 C.

Safety and Handling

A Safety Data Sheet for this product may be obtained from your local AGC representative. Before handling, it is recommended to review the Safety Data Sheet for handling, safe, and health information.

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Product Specifications

Additional product specifications and information can be obtained by request.

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Chemistry for a Blue Planet
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This information should be used as a guide only and not to establish specification limits or design criteria.