Lith™

LITHIUM SILICATE (LS)45 HS

Lithium Polysilicate Solution – 28% Solids

PRODUCT DESCRIPTION

Lithium Silicate (LS)45 HS is a high-solids aqueous lithium polysilicate solution designed for use as a reactive binder and hardener in coatings, surface treatments and sealers. Its lithium-rich composition supports stable reactions and improved performance in concrete treatments, specialty coatings and high-performance zinc-rich coatings for marine and industrial applications.

KEY FEATURES

- High lithium concentration
- Improves interaction and compatibility in formulations
- Promotes stable chemical reactions
- Enhances durability and surface performance
- Suitable for high-performance protective coatings

APPLICATIONS

- Inorganic paints, coatings and primers
- Anti-corrosive and zinc-rich coatings
- Refractory applications
- Catalyst applications
- Concrete admixtures and surface treatments
- Welding rod binders
- Flame-retardant formulations
- Ceramics, glazes and enamels

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Specialty Chemical Experts

LIMITED WARRANTY INFORMATION.
PLEASE READ CAREFULLY.

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Users are solely responsible for determining the suitability of this product for their specific application and for ensuring compliance with all relevant regulations, industry standards, and intellectual property rights. The product must not be used in violation of any law, statute, or thirdparty rights.

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This document is subject to revision without notice as new data becomes available.

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PRODUCT SPECIFICATIONS

PARAMETER	TYPICAL VALUE
Appearance	Semi-clear, hazy solution
Odour	Odourless
Solids Content	27.0–28.0 wt.%
SiO_2 Content	24.0–24.50%
SiO_2/Li_2O Ratio	3.0–3.50
Density	1.19 g/cm³
Boiling Point (760 mmHg)	0°C
Melting Point	100°C
Vapour Pressure at 25°C	17.5 mmHg
pH	11.0–12.0
Viscosity (Ford B4 Cup)	14.0–16.0 seconds
Freezing Point	0°C (33°F)
VOC Content	<50 g/L

PACKAGING

Available in polyethylene drums and intermediate bulk containers (IBCs).

STORAGE & HANDLING

Store in original, unopened containers in a dry, sheltered environment at temperatures between 2°C and 25°C. Protect from freezing and prolonged exposure to elevated temperatures. For bulk storage, suitable materials include cross-linked polyethylene, fibreglass-reinforced plastic and stainless steel grade 304.
Shelf life is 12 months when stored under recommended conditions.

SAFETY

Refer to the current Safety Data Sheet (SDS) for information on safe handling, storage, personal protective equipment and disposal. Not intended for food, medical or pharmaceutical applications.