Lithium Potassium Polysilicate (LPS)-39

Chemical Formula: Li_2O / K_2O / SiO_2
CAS Number: 12627-14-4

PRODUCT DESCRIPTION

Lithium Potassium Polysilicate (LPS)-39 is a water-based mixed alkali silicate solution containing lithium, potassium and silica. It provides stable reactive silicate chemistry with a high ratio and low viscosity, and is suitable for use in coatings, concrete treatments and other inorganic binder systems.

KEY FEATURES

- High lithium concentration
- Improved interaction and compounding characteristics
- Stable reactive silicate chemistry
- High-ratio, low-viscosity solution
- Enhances water and wear resistance
- Improves hardness, bonding and abrasion resistance
- Suitable for high-performance coating and concrete systems

APPLICATIONS

- Inorganic paints, coatings and primers
- Anti-corrosive coatings
- Powder coatings
- Refractories
- Catalysts
- Concrete admixtures
- Concrete surface treatments
- Welding rod binder additives
- Flame retardants
- Ceramics, glazes and enamels

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LIMITED WARRANTY INFORMATION.
PLEASE READ CAREFULLY.

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

TECHNICAL SUPPORT
+61294103317
info@chemport.com.au

Suite 2.08
32 Delhi Road
Macquarie Park
NSW 2113
Australia

chemport.com.au

PRODUCT SPECIFICATIONS

PARAMETER	TYPICAL VALUE
Appearance	Clear, colourless, water-based solution
K_2O	8.0–8.50 wt%
Li_2O	1.0–1.02 wt%
SiO_2	20.0–20.60 wt%
Total Solids	29.00–30.12%
Weight Ratio	2.40–2.60
Molar Ratio	3.80–4.00
pH	11.6–11.8
Specific Gravity	1.26–1.27
Viscosity	33–35 cP
Flash Point	N/A
VOC	<50 g/L
Freeze Point	0°C

PACKAGING
Available in 55-gallon polyethylene drums, 275-gallon IBCs or bulk ISO/tanker quantities.

STORAGE & HANDLING
Store in cool, dry conditions away from direct sunlight.

SHELF LIFE
12 months from delivery when stored under the recommended conditions.

SAFETY
Refer to the current Safety Data Sheet (SDS) for additional information on safe handling, storage and use.