



LZN-25C[®]

Nanoparticle Zinc Additive



DESCRIPTION

LZN-25C[®] is a high-quality, oil-soluble, metal organic nano zinc additive suitable for many applications. It is particularly recommended as a replacement additive for amines and other materials used for the removal of hydrogen sulfide in crude petroleum, petroleum products, asphalts and fuels.

LZN-25C[®] as formulated is nanosize particulates in carboxylic acids for greater reactivity.

APPLICATION

LZN-25C[®] can be added directly to petroleum products. Dosage should be started at 8 ppm of product for each 1 ppm of sulfur to be reduced preferably following hydrotreating of petroleum. Dosage to reduce hydrogen sulfide should begin at 1 ppm of product for each 1 ppm of H₂S for approximately 90% removal. More product may be introduced for better removal. Testing to determine the most effective dosage should always be done

Due to the oil soluble and dispersible properties of **LZN-25C[®]** it should be more efficient than the inorganic solids. Because the reaction product is normally zinc sulfide, the capture of H₂S is not reversible at normal temperatures.

PURITY

LZN-25C[®] contains very low trace metals, particularly cadmium.

TYPICAL PROPERTIES

Zinc, wt%	25.0 min.
Appearance	dark liquid
Density at 77°F (25°C)	10.25 lbs/US gal
Spec. Grav. at 77°F (25°C)	1.23
Flash Point	150F (65C) min.
Pour Point	<-10°F (<-23°C)
Viscosity	
@ 100°F (38 °C)	<150 cSt
@ 60°F (16 °C)	<250 cSt
Cadmium, ppm	< 10

SAFETY AND HANDLING

LZN-25C[®] nanoparticle zinc additive is readily pumpable from unheated additive storage at temperatures above 0°F (-17 °C). It is stable in mild steel and aluminum storage tanks or in original containers over long periods of time. It is an industrial chemical and should be handled with the same precautions as used with ordinary distillates, solvents, and weak alkalis. Avoid open flame. Avoid skin and eye contact. Wash contaminated areas with soap and water.

AVAILABILITY

LZN-25C[®] is supplied in bulk, net 275 U.S. gallon non-returnable totes, and net 55-U.S. gallon, non-returnable drums. Shipping classification: "Compound, Crude Petroleum Treating."

Before handling, storage or use, see the Material Safety Data Sheet (MSDS) for details.

Liquid Minerals, Inc. Customer Care Hotline:
1-936-291-2424 (8 a.m. to 5 p.m. CST)
Emergency – Chemtrec 800-424-9300 (US)
703-527-3887 (Intl)

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