

SLI/Engine Starting Expanders

PRODUCT TECHNICAL DATA

USES:

Automobiles, Lawn and Garden Equipment, Recreational Vehicles and Marine.

DESCRIPTION:

Formulated to provide outstanding battery performance at very high discharge rates in sub-zero temperatures.

PHYSICAL PROPERTIES:

Odor..... Vanilla or wood pulp-like
 Color..... Grey to Black
 Consistency..... Powder
 Addition to Paste Mix..... Dry
 Density..... Varies by formula

BAG SIZES AND WEIGHT RANGES:

Small..... 6 lbs. – 13.2 lbs.
 Medium..... 12 lbs. – 27.9 lbs.
 Large..... >18 lbs.

SELECTION GUIDE:

Application	Expander Type	Composition	Ash Content	Addition Rate
Automobiles Rec. Vehicles Marine Lawn and Garden equipment	HE-4640	Blanc Fixe Carbon Black Sodium Lignosulfonate	51 ± 5.0%	1.00%
	HE-631-A; A/H; & H	Blanc Fixe Carbon Black Sodium Lignosulfonate	65.6 ± 5.0%	1.00%
	HE-PORITE 90; A; & H	Blanc Fixe Carbon Black Sodium Lignosulfonate	66.5 ± 2.5%	1.00%
	HE-5350	Blanc Fixe Carbon Black Sodium Lignosulfonate	48.8 ± 5.0%	1.00%

IMPURITIES:

Element	Typical (ppm)	Maximum (ppm)
Iron	100	200
Copper	100	170
Nickel	5	10
Manganese	5	10



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6544 Osborn Avenue • Hammond, Indiana 46320 U.S.A. • Phone (219) 989-4060 • Fax (219) 989-4072

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