

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	49 ± 5.0%	1.00%
	HE-631	Blanc Fixe Carbon Black Sodium Lignosulfonate	65.6 ± 5.0%	1.00%
	HE-PORITE 90	Blanc Fixe Carbon Black Sodium Lignosulfonate	66.5 ± 2.5%	1.00%
	HE-140	Blanc Fixe Carbon Black Sodium Lignosulfonate	63.2 ± 5.0%	1.00%
	HE-4215	Blanc Fixe Carbon Black Sodium Lignosulfonate	69.7 ± 5.0%	1.00%
	HE-500	Blanc Fixe Carbon Black Sodium Lignosulfonate Others	59.4 ± 5.0%	1.00%

IMPURITIES:

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



A Division of HAMMOND GROUP, INC.

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

© Hammond Expanders, Division of Hammond Group Inc. 2004 • Proprietary Information: Not to be disclosed to a third party without the express written consent of Hammond Group Inc. • www.hammondexpanders.com