FILE NAME: Hedman (HED)

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DOCUMENT DESCRIPTION: Company Specs

HEDMANITE

technical data sheet

Hedmanite is a natural nonasbestos serpentine - lizardite - powder with a minor chrysotile impurity having an average fibre length of about 2½ microns (determined at 4000X magnification), that is in the category considered by the medical research experts to be devoid of pathogenic potential. The lap shear strength of the prismatic laths coupled with the fibre reinforcement provided by Hedmanite will help the formulator achieve most of the desirable qualities of asbestos, mica and talc without the drawbacks. The minor free iron (magnetite) impurity results in good insulating and di-electrical properties. Contains no free silica or additives. Control any dust.

PLASTIC USES:

Hedmanite is used in phenolic and polyester molding compounds and gelcoats as a reinforcing filler. It also has application in vinyl flooring and in vinyl acetate and epoxy adhesives, acrylic, melamine, nylon, polypropylene, polyethylene.

PAPER USES:

Hedmanite is a low-cost extender of cellulose fibres in paperboard, construction paper, and cover paper. It can be used in newsprint and other printing papers for improvements in print quality and opacity, and generally in the pulp and paper industry for pitch control.

GENERAL USES:

Hedmanite has application in refractory compounds for steel mills, in welding rod flux coatings, texture & rust proof paints, stains & primer paints, friction materials, asphalt paving, sealants, caulking tape and compounds, certain cement products, wood preservatives, corrosion resistant coatings, stucco, latex backing for linoleum and floor tiles, mastic cell putties and insulating cement, grease.

TECHNICAL DATA (Typical Values):

Typical Chemical Analysis:

CONSTITUENT		%
Silica	(SiO_2)	40.98
Ferrous Oxide	(FeO)	2.05
Ferric Oxide	(Fe_2O_3)	2.41
Alumina	(Al_2O_3)	2.52
Lime	(CaO)	0.30
Magnesia	(MgO)	38.07
Manganese Oxide	(MnO)	0.21
Chromic Oxide	(Cr_2O_3)	0.44
Nickel Oxide	(NiO)	0.24
Carbon Dioxide	(CO_2)	0.22
Molecular H_2O - LOI at 982°C		12.93
Moisture - oven drying at 205°C		.50

Identity and Physical Data:

Appearance		White (blueish)
Chemical family: Hydrous magnesium silicate		
Molecular formula		$Mg_3(Si_2O_5)(OH)_4$
Bulk density: ml/100g -	Dry	300-500
	Wet	300-560
	Pressure	135-160
Charge		Electropositive
pH		9.4
Specific Gravity		1.87
Brightness		57-63
Oil Absorption[1]		32

(1) SPATULA RUBOUT METHOD LBS. OIL/100 LBS. PIGMENT

HEDMAN RESOURCES LIMITED

Timmins, Ontario, Canada P4N 7E7 - Telephone: (705) 264-3709, Cable "Hedman"

Warehoused stock in Toronto, Cleveland, Liverpool, Antwerp, Tokyo and Kobe

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