



# Data Sheet

**OPTI-FIBRE  
(HAR 0-1mm)**

**DESCRIPTION :-**

Off white free-flowing crystalline needles

**CHEMICAL ANALYSIS % :-**

P <sub>2</sub> O <sub>5</sub>	:	0,09%	Fe <sub>2</sub> O <sub>3</sub>	:	0,63%
Na <sub>2</sub> O	:	0,10%	SiO <sub>2</sub>	:	48,4%
K <sub>2</sub> O	:	0,05%	Al <sub>2</sub> O <sub>3</sub>	:	0,53%
TiO <sub>2</sub>	:	0,24%	CaO	:	46,4%
MgO	:	0,20%			

**PARTICLE SIZE DISTRIBUTION (Typical % retained):-**

+ 750 um (d90)	10	250 um	30
600 um	25	-100 um (d90)	10
400 um (d50)	50		

**PHYSICAL PROPERTIES :-**

L.O.I	:	2,38%
Hardness (Mohs scale)	:	4,5
pH (aqueous solution)	:	9,9
Moisture (110 °C for 2	:	0,02%
Sintering Temperature	:	991 - 1196 °C
Melting Point	:	1540 °C
Coefficient of Expansion	:	6,5 x 10 <sup>-6</sup> cm/cm/°C
Bulk Density - loose	:	1,35 g/cc
Water Solubility	:	0,0095 g/100cc
Aspect Ratio	:	15:1 - 20:1

**USES :-**

Cement, brake linings, polymers, ceramics, paint

Completed :	T Carolin	Approved By _____	Approved :	S. Gregory
Title:	Quality Manager		Title :	Director
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