

NORSPRAY AS  
 Maskinveien 10  
 N - 4033 STAVANGER  
 Norway

## TECHNICAL DATA & PHYSICAL CHARACTERISTICS FOR GARNET ABRASIVES

CHEMICAL COMPOSITION		
Al <sub>2</sub> O <sub>3</sub>	Alumina	21,0 %
Fe <sub>2</sub> O <sub>3</sub>	Iron	31,0 %
SiO <sub>2</sub>	Silica	35,0 %
MgO	Magnesium	8,0 %
CaO	Calcium	1,5 %
TiO <sub>2</sub>	Titanium	1,0 %
P <sub>2</sub> O <sub>5</sub>	Lead	0,05 %
MnO	Manganese	0,5 %
ZrO <sub>2</sub>	Zircon	Traces
Chloride content		Less than 25 ppm
pH of aqueous medium		6.93
Gypsum content		Nil
Moisture content		Less than 0.5%
Carbonate content		Traces
Loss on ignition		Nil
Metal content (specifically free iron, free copper and other heavy metals)		Traces

Note : 1. Garnet being a natural Product, its Chemical Analysis is expected to vary

PHYSICAL PROPERTIES	
Specific weight	4.1 g/cm
Average bulk density	2.4 g/cm
Hardness	8.0 (mohs scale)

OTHER CHARACTERISTICS	
Crystal system	Cubic
Habit	Dodecahedron with occasional Trapezohedron
Fracture	Sub-conchoidal
Durability	Very good
Free flow	97 % minimum
Susceptibility to acid	None
Moisture absorption	Non-hygroscopic Inert.
Magnetism	Very slightly magnetic
Conductivity	10 microsiemens per meter
Radioactivity	Not detectable above background
Pathological effects	None
Free silica content	None

MINERALOGICAL COMPOSITION	
Garnet (Almandine)	97 - 98 %
Ilmenite	1 - 2 %
Quartz	0,5 %
Other	0,5 %