

GARNET DATA SHEET



PROPERTIES OF GARNET ABRASIVE:

Natural grain sizes from 106 to 2000 microns

Specific weight of 4.0 g/cm³

Average bulk density of 2.4 g/cm³

Highly stable, non- hygroscopic, inert and not susceptible to acid

Does not contaminate surfaces of non-ferrous materials

Exhibits high toughness with a very low particle breakdown on impact

Does not contain Free Silica

Mesh Size

8/12	mesh
12/20	mesh
20/40	mesh
30/60	mesh
50/80	mesh
80	mesh
120	mesh

Chemical Composition

• Silica SiO ₂	34.56 to 40%
• Iron(Fe ₂ O ₃ +FeO)	23.41 to 33%
• Alumina Al ₂ O ₃	17.21 to 21%
• Magnesium MgO	5.64 to 6%
• Calcium CaO	5.93 to 9.0%
• Manganese MnO	0.44 to 2%

Physical Characteristics

• Specific Gravity	3.76 to 4.02g/cm ³
• Hardness	Mohs 7.6
• Chloride content	less than 25ppm
• Colour	Reddish Brown
• Acid solubility(HCL)	less than 1%
• Conductivity	less than 25 ms/m
• Melting point	1300 Deg C
• Grain shape	Sub Angular