

# TECHNICAL DATA SHEET (TDS)

HANSON (SHANGHAI) CO., LTD

**Product Name:** Garnet Sand

**Main composition:** Almandine

**Molecular formula:**  $\text{Fe}_3\text{Al}_2(\text{SiO}_4)_3$

Specifications	
<b>Appearance</b>	<b>Red</b>
<b>Ingredient</b>	<b>Content</b>
SiO <sub>2</sub>	41.64
Al <sub>2</sub> O <sub>3</sub>	18.77
Fe <sub>2</sub> O <sub>3</sub>	3.05
CaO	4.48
MgO	7.22
Na <sub>2</sub> O	0.30
K <sub>2</sub> O	0.19
TiO <sub>2</sub>	0.58
MnO	0.42
FeO	21.62
P <sub>2</sub> O <sub>5</sub>	0.074
LOI	-1.52
<b>Moh's hardness</b>	<b>7 - 8</b>
<b>Specific weight</b>	<b>3.7-4.2g/cm<sup>3</sup></b>
<b>Grain shape</b>	<b>Sub angular</b>
<b>Bulk density</b>	<b>1.8-1.9/cm<sup>3</sup></b>
<b>Density</b>	<b>4g/cm<sup>3</sup></b>
<b>Chloride</b>	<b>10-15ppm(25ppm max)</b>
<b>Acid solubility</b>	<b>&lt;1%</b>
<b>Melting Point</b>	<b>1300°C</b>
<p>The above mentioned chemical product has no poison,no pollution and no cauterization.It is common chemical product.</p>	