



**KUNAL EXIM**

## **PRODUCT DATA SHEET**

KUNAL EXIM Garnet is a natural sandblasting mineral, derived from Almandine garnet grains which are known for natural hardness and durability. The combination of the high density and physical properties make Garnet nature's most highly efficient, effective and safe abrasive for both wet and dry blasting applications. It's excellent for coating adhesion, as well as applications where low or no transfer of grit into the substrate can be tolerated.

### **Product Identification**

Product names : Garnet

Other names : None

### **Advantages of Kunal Exim Garnet**

- Wide range of grades and compositions are available for different jobs and different profiles on surface
- Garnet grains create a uniform profile virtually free of embedment, providing an excellent surface for coating adhesion
- The consumption is low compared to its effectiveness which makes it one of the most cost-effective.
- Non-toxic – inert and natural, crystalline silica levels are less than 1%.
- Recyclable up to 4 times
- Low dust levels helping the environment and the manpower involved in blasting.
- It helps to clean the surface fast and easily with the desired level of finishing.
- Its non-reactant, will not interfere with your coatings
- Its non-porous and will not draw moisture

### **Usage**

- Tanks and other confined spaces, use of a low dusting abrasive is necessary.
- Dry docks, Bridges, Shipyards - a great abrasive to use where water contamination is a concern. Also, Aluminum and Fiberglass surfaces
- Powder coating, denim blasting
- Industrial Painting
- Waterjet Cutting

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**KUNAL EXIM**



### Typical Mineral Composition

Garnet- $\text{Fe}_3\text{Al}_2(\text{SiO}_4)_3$ : 97.2 %	Rutile : 0.1 %
Zircon- $\text{ZrSiO}_4$ : 0.2 %	Ilmenite- $\text{FeTiO}_3$ : 1.8 %
Calcium Carbonate- $\text{CaCO}_3$ : 0.10 %	Quartz- $\text{SiO}_2$ : 0.2%

### Typical Sieve Analysis

Sizes		% Retained		
US Mesh	MM	20/40	30/60	80#
#12	1.680	-	-	-
#20	0.841	1-5	-	-
#30	0.595	10-20	0-1	-
#40	0.420	45-65	10-20	-
#50	0.297	5-10	45-65	5-15
#60	0.250	-	20-35	25-45
#80	0.177	-	0-10	35-55
#100	0.150	-	-	0-10

\*5-10% variation is allowed in typical sieve analysis

### Typical Chemical Analysis

Chemical name	Proportion (%)
$\text{Al}_2\text{O}_3$ $\text{ZrO}_2$	21
$\text{SiO}_2$	40
$\text{FeO}$	26
$\text{Fe}_2\text{O}_3$	2.9
$\text{TiO}_2$	1.0
$\text{ZrO}_2$	0.01
$\text{P}_2\text{O}_5$	0.03
$\text{Cr}_2\text{O}_3$	0.04
Th+ U	200 ppm



**Other Characteristics**

Radioactivity .....	Non-detectable	Copper.....	<0.01%
Moisture absorption.....	Non-hydroscopic	Sulphur.....	<0.01%
Free Iron .....	<0.01%	Other Heavy Metals.....	<0.01%

**Physical Characteristics**

Hardness	7.5 to 8 Mohs
Chloride	Max 25 ppm
pH	>7
Bulk Density	2.34 T/m <sup>3</sup>
Specific Gravity	4.1
Melting Point	1260 <sup>0</sup> C
Grain Shape	Sub-angular

**Packaging Options**

Packaging is available in 1MT and 2MT Jumbo Bags.