

Wulanchabu Rongchang Industry And Trade Co., Ltd.

Sister Branches: Wulanchabu Rongchang Import and Export Trade Co., Ltd

Wulanchabu Xindi Trade Co., Ltd.

Wulanchabu Zhaohui Trade Co., Ltd.

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<https://www.chinesegarnet.com> www.chinarongchang.com

Technical Data Sheet for HardRock Garnet

1. Average chemical composition (WT%)

SiO₂ ----- 37.72
 Al₂O₃ ----- 22.37
 Fe₂O₃ ----- 0.8
 FeO ----- 28.71
 MgO ----- 6.05
 MnO ----- 0.95
 CaO ----- 1.52
 TiO₂ ----- 0.75

2. Physical characteristics

Shape of garnet particles -----Sub-angular
 Color -----Reddish brown
 Oudour -----No appreciable
 Solubility in water -----Insoluble
 Size range -----mesh #4 - #200
 Bulk Density -----2-2.5g/cm³
 Specific gravity -----3.8-4.3g/cm³
 Melting point -----1170°C-1280°C
 Hardness -----7.20-8.0(hm)
 Mean refractive -----1.712-1.8875

3. Other characteristics

Conductivity ----- Very low(119.3pS /cm)
 Radioactivity -----Not detectable
 Contamination -----Non
 Chloride ----- Less than 1ppm
 Moisture ----- Non-hygroscopic
 Free iron ----- Non
 Free silicon ----- Non
 Other heavy metal ----- Non
 Toxic substances ----- Non

4. Particle Distributions

Tyler Screen	Opening (Microns)	#4/8	#8/16	#12/24	#20/40	#30/60	#80	#120
4	4750	0-5						
6	3350	35-40						
7	2800	55-60						
8	2350	0-5	0-3					
10	2000		10-20					
12	1700		20-30	0-5				
14	1400		30-40	10-30				
16	1180		20-30	20-40				
20	1000		0-3	5-20	0-5			
24	710				20-50			
30	600			5-15	20-40	0-5		
35	500			0-5	10-20	10-20		
40	425				5-15	10-30		
45	355				0-5	20-40	0-2	
50	325				0-5	15-30	10-20	
60	250					10-25	25-35	
70	212					0-5	25-35	0-5
80	180						10-20	15-35
100	150						5-10	20-40
-100	150						0-5	
120	125							20-40
140	106							5-15
-140	106							0-10
180	90							