

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 Alluvial Garnet

1. Average chemical composition (WT%)

SiO₂ ----- 37.31
 Al₂O₃ ----- 20.8
 Fe₂O₃+FeO ----- 29.15
 MgO ----- 8.8
 MnO ----- 0.41
 CaO ----- 1.1
 TiO₂ ----- 1.2

2. Physical characteristics

Shape of garnet particles ----- Sub-angular to sub rounded
 Color ----- Red Pink
 Oudour ----- No appreciable
 Solubility in water ----- Insoluble
 Bulk Density ----- 2-2.5g/cm³
 Specific gravity ----- 3.8-4.3g/cm³
 Size range ----- mesh #4 - #200
 Melting point ----- 1170°C-1280°C
 Hardness ----- 7.50-8.0(hm)
 Mean refractive ----- 1.714-1.887

3. Other characteristics

Conductivity of aqueous extract ----- 48-83μS /cm
 Radioactivity ----- Not detectable
 Chloride ----- Less than 1ppm
 Moisture ----- Non-hydroscopic
 Free iron ----- Non
 Free silicon ----- Non
 Other heavy metal ----- Non
 Toxic substances ----- Non

4. Particle Distributions

Tyler Screen	Opening (Microns)	#12/20	#20/40	#30/60	#80
10	2000				
12	1700	0-5			
14	1400	10-20			
16	1180	20-30			
20	1000	20-40	5-10		
24	710	0-5	10-30		
30	600		30-60	0-2	
35	500			10-20	
40	425		5-10	10-20	
45	355		0-5	10-30	0-2
50	325		0-5	20-30	5-10
60	250			10-30	25-35
70	212			5-10	25-35
80	180			0-2	10-20
100	150				10-20
-100	150				5-10
120	125				
140	106				