

TOTAL CHEMICAL COMPOSITION COMPARISON OF ABRASIVES

ABRADE-AWAY COPPER SLAG				
Chemical Analysis (typical)			Product Data	
Fe ₂ O ₃	Iron Oxide	60.23-69.63%	Low free silica	less than 1%
SiO ₂	Silicon Dioxide	28.16-30.84%	Particle shape	angular, sub-angular
Al ₂ O ₃	Aluminum Oxide	2.42-3.61%	Hardness	7 on Mohs scale
Zn	Zinc	1.49-2.20%	Bulk density	120-130 lbs. per cu. ft.
CaO	Calcium Oxide	.30-1.18%	Specific gravity	typically 3.8
Cu	Copper	.60-.91%		
S	Sulfur	.62-.82%		
MgO	Magnesium Oxide	.34-.38%		
Pb	Lead	.12-.37%		
As	Arsenic	.04-.12%		
	Silicon Dioxide, crystalline	less than 0.1%		
GARNET				
Chemical Analysis (typical)			Product Data	
SiO ₂	Silicon Dioxide	36%	Low free silica	less than 1%
FeO	Iron Oxide	30%	Particle shape	sub-round, sub-angular
Al ₂ O ₃	Aluminum Oxide	20%	Hardness	7-8 on Mohs scale
MgO	Magnesium Oxide	6%	Bulk density	140 lbs. per cu. ft.
TiO ₂	Titanium Dioxide	2%		
Fe ₂ O ₃	Iron Oxide	2%		
CaO	Calcium Oxide	2%		
MnO	Manganese Oxide	1%		
SILICA SAND				
Chemical Analysis (typical)			Product Data	
SiO ₂	Silicon Dioxide	99.53%	Particle shape	sub-round, sub angular
Al ₂ O ₃	Aluminum Oxide	0.12%	Hardness	7 on Mohs scale
Fe ₂ O ₃	Iron Oxide	0.11%	Bulk density	100 lbs. per cu. ft.
CaO	Calcium Oxide	0.01%		
TiO ₂	Titanium Dioxide	0.03%		
K ₂ O	Potassium Oxide	0.03%		
MgO	Magnesium Oxide	less than .01%		
S	Sulfide	less than .01%		
Cl	Chloride	less than .001%		
COAL SLAG				
Chemical Analysis (typical)			Product Data	
SiO ₂	Silicon Dioxide	49.47%	Low free silica	less than 1%
Al ₂ O ₃	Aluminum Oxide	20.26%	Particle shape	angular, sharp
Fe ₂ O ₃	Iron Oxide	20.04%	Hardness	7 on Mohs scale
CaO	Calcium Oxide	6.16%	Bulk density	75-100 lbs. per cu. ft.
K ₂ O	Potassium Oxide	1.74%		
MgO	Magnesium Oxide	0.87%		
TiO ₂	Titanium Dioxide	0.74%		
Na ₂ O	Sodium Oxide	0.72%		
Be	Beryllium	less than .0001%		



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