

## Chilled Iron

Chilled Iron is a high performance, fast cleaning hematite cast iron abrasive. With its low residual elements, together with a tightly controlled chemical analysis ensure an extended service life.

Particle Size Specification								
BS Sieve (No)	8	<b>10</b>	12	14	16	18	22	25
BS Aperture (mm)	2.0	<b>1.68</b>	1.40	1.20	1.00	0.85	0.71	0.60
GRADE								
<b>G80 2.0-2.8</b>	80%	80%						
	min	min						
<b>G66 1.7-2.4</b>		80%	90%					
		min	min					
<b>G55 1.4-2.0</b>			80%	90%				
			min	min				
<b>G47 1.2-1.7</b>				75%	85%			
				min	min			
<b>G39 1.0-1.4</b>					75%		85%	
					min		min	
<b>G34 0.85-1.2</b>						75%		85%
						min		min

<b>BS Sieve (No)</b>	25	30	36	44	52	85	120
<b>BS Aperture (mm)</b>	0.60	0.50	0.42	0.355	0.30	0.18	0.12
<b>GRADE</b>							
<b>G24 0.6-1.0</b>	70% min		85% min				
<b>G17 0.42-0.85</b>			70% min		80% min		
<b>G12 0.3-0.71</b>					65% min		85% min
<b>G7 0.18-0.42</b>						65% min	65% min
<b>G5 0.12-0.3</b>							60% min
<b>G2 &lt;0.13</b>							All pass

<b>Chemical Analysis</b>	
<b>C</b>	2.90%
<b>Si</b>	1.40%
<b>S</b>	0.100%
<b>P</b>	0.100%
<b>Mn</b>	0.35%

<b>Chemical &amp; Physical Properties</b>	
<b>Boiling Point</b>	3000 °C
<b>Melting Point</b>	1350°C
<b>Bulk Density</b>	4 Tonne/ Cubic Metre
	250lb/Cubic Foot
Vapour Pressure at room temperature	Negligible
Vapour Pressure at working temperature	Negligible
Vapour Density	Greater than air
Solubility or dispersiveness in water	Negligible: will corrode in the presence of some salts
Adhesion Qualities	Magnetic at N.T.P.
Non-Inflammable	As supplied*
Non -Explosive	As supplied*
* Spontaneous combustion may occur if stored in bulk containers in an unstable temperature and humidity environment	
Shape:	Angular
Typical average hardness	>57HRC or >650 HV
Mean Hardness deviation	± 3HRC or ±40 HV
Microstructure	Highly refined chilled iron
Minimum density measured by alcohol displacement	>7.0g/cm <sup>3</sup>
Handling	
Transport	Ensure secure packaging
Storage	Keep dry in a stable environment
Usage	Avoid Spillage
Disposal	The company is unaware of any restrictions concerning the disposal of abrasive waste in the form of grit

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