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## Air Cooled Iron Silicate

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Air cooled iron silicate is a by product of copper refining operations, it is cast into a furnace pot and then left to cool. It is then crushed down into different particle sizes. It is used in flooring applications as non slip/ hardener, for decoration, and for lining canal banks.

<b>Chemical Analysis Iron</b>	<b>% Typical</b>	<b>Physical Properties</b> Non inflammable, non hydroscopic angular , grey/brown in colour; <b>Aggregate Abrasion Value</b>  <b>Polished Stone Value</b> <b>38</b> <b>Aggregate Crushing Value</b> <b>19%</b> <b>Aggregate Impact Value</b> <b>9%</b> <b>10 % fines value kN</b> <b>210</b> <b>Hardness (mohs)</b> <b>7-9</b>  <b>Special Precautions</b> - In use protection is required to meet respirable dust threshold limit values of 5mg/m <sup>3</sup> and for total inhalable dust 10mg/m <sup>3</sup> .  <b>Disposal</b> -There are no special requirements for waste disposal for the material as supplied. Applications should be made to the relevant local authority for permission to tip on authorised sites.
<b>Oxide (FeO)</b>	<b>37.00</b>	
<b>Silica (SiO<sub>2</sub>)</b>	<b>33.46</b>	
<b>Aluminium Oxide (Al<sub>2</sub>O<sub>3</sub>)</b>	<b>4.40</b>	
<b>Calcium Oxide (CaO)</b>	<b>4.63</b>	
<b>Copper Oxide (CuO)</b>	<b>0.3</b>	
<b>Zinc Oxide (ZnO)</b>	<b>2.0</b>	
<b>Tin Oxide (SnO)</b>	<b>0.3</b>	
<b>Nickel Oxide (NiO)</b>	<b>0.2</b>	
<b>Lead Oxide (PbO)</b>	<b>0.3</b>	
<b>Magnesium Oxide (MgO)</b>	<b>1.23</b>	
<b>Manganese Oxide (MnO)</b>	<b>0.16</b>	
<b>Titanium oxide (TiO<sub>2</sub>)</b>	<b>0.25</b>	

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