

ANDALUSITE PREMIUM

Chemical Analysis (Standard)		
%	typical	guaranteed
Al ₂ O ₃	59.0	Min 58.50
SiO ₂	38.1	
Fe ₂ O ₃	0.80	Max 0.90
TiO ₂	0.22	
MgO	0.11	
CaO	0.10	
K ₂ O	0.35	Max 0.40
Na ₂ O	0.05	Max 0.10

Physical Properties			
	typical	guaranteed	standard
Bulk density	3.10	3,05	g/cm ³
Moisture	0.10	Max 0.50	%

Other information
<p>Andalusite is consumed predominantly within the refractory industry because of its ability to form the refractory high-performance mullite phase (3 AlP3' 2 SiO2) at high temperatures. This phase confers a high, hot strength with high resistance to chemical and physical erosion-properties that are desirable at high temperatures and under chemically corrosive conditions.</p> <p>Andalusite is used in a wide range of applications mainly into refractory materials used by the iron and steel industry, in either cast forms such as bricks or an unshaped, monolithic version of the material.</p> <p>Andalusite refractories are favoured under abrasive conditions where high loads and high emperatures are encountered.</p> <p>Andalusite also finds application in ladles that are used under a variety of conditions.</p> <p>Other applications are as refractory shapes such as burner bodies and combustion chambers in cement kilns, linings for glass furnaces, kiln furniture for the firing of ceramic products, and in copper-roasting furnaces. It is also used in unshaped refractory applications, such as castables or gunning mixes, ramming mixes, foundry sand, roofs of reheat furnaces, and heat-treatment furnaces.</p>