



ARIA AZHAND

## C-ARG1500

### Characteristics:

Physical property	Unit	Typical value
Al <sub>2</sub> O <sub>3</sub> content	%	60-64
Water absorption	%	2.35
Moisture (@ 105 °C, 2 h)	%	<0.06
Size	mm	0-1,1-3,3-5
Actual density	g/cm <sup>3</sup>	2.6
Chemical composition	Unit	Typical value
Al <sub>2</sub> O <sub>3</sub>	%	60-64
SiO <sub>2</sub>	%	28-30
Fe <sub>2</sub> O <sub>3</sub>	%	1-3
Na <sub>2</sub> O+K <sub>2</sub> O	%	0.2-0.3
P <sub>2</sub> O <sub>5</sub>	%	0.05-0.08
TiO <sub>2</sub>	%	2-3
SO <sub>3</sub>	%	0.01-0.03
MgO+CaO	%	0.35-0.5
ZrO <sub>2</sub>	%	0.08-0.12
L.O.I (@ 950 °C, 2 h)	%	0.07



Aria Azhand. is a science- and technology-based company, Pioneer in mineral binders and refractory materials

310 Aghaghia Alley, Zaviyeh Industrial Zone, Saveh



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## C-BX1500

### Characteristics:

Physical property	Unit	Typical value
Al <sub>2</sub> O <sub>3</sub> content	%	70-74
Water absorption	%	2.35
Moisture (@ 105 °C, 2 h)	%	<0.06
Size	mm	0-1,1-3,3-5
Actual density	g/cm <sup>3</sup>	2.6
Chemical composition	Unit	Typical value
Al <sub>2</sub> O <sub>3</sub>	%	70-74
SiO <sub>2</sub>	%	18-20
Fe <sub>2</sub> O <sub>3</sub>	%	1-3
Na <sub>2</sub> O+K <sub>2</sub> O	%	0.2-0.3
P <sub>2</sub> O <sub>5</sub>	%	0.05-0.08
TiO <sub>2</sub>	%	2-3
SO <sub>3</sub>	%	0.01-0.03
MgO+CaO	%	0.35-0.5
ZrO <sub>2</sub>	%	0.08-0.12
L.O.I (@ 950 °C, 2 h)	%	0.07



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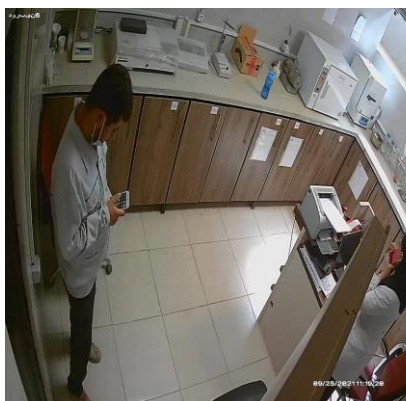


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## Alpha-Alumina

### Characteristics:

Physical property	Unit	Typical value
Purity	%	Min. 99%
Oil absorption	mL/100 g	18-22
Whiteness	%	98
Moisture (@ 105 °C, 2 h)	%	<0.2
pH of 5% in water	-	7.5-8.5
+75 $\mu$ m ~ 200 mesh Tyler	%	0
+ 45 $\mu$ m ~ 325 mesh Tyler	%	0
Particle size in agglomerates (based of TEM analysis)	nm	60-150
Product shape	-	Powder
Actual density	g/cm <sup>3</sup>	3.93
Chemical composition	Unit	Typical value
Al <sub>2</sub> O <sub>3</sub>	%	Min 99.0
SiO <sub>2</sub>	%	Max 0.03
Fe <sub>2</sub> O <sub>3</sub>	%	Max 0.01
Na <sub>2</sub> O	%	Max 0.14
L.O.I (@ 950 °C, 2 h)	%	0.01-0.02



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