

# ALUMINA CEMENT

**50**

Products	A600		A700		A900	
	Moderate		Short		Longer	
	Usual Range	Specification Limit	Usual Range	Specification Limit	Usual Range	Specification Limit
<b>Chemical Composition (%)</b>						
SiO <sub>2</sub>	7.8-8.3	≤9	7.0-7.5	≤8	5.0-5.5	≤6
AL <sub>2</sub> O <sub>3</sub>	50.0-51.0	≤50	50.5-51.5	≤50	53.5-54.5	≤53
Fe <sub>2</sub> O <sub>3</sub>	1.5-2.5	≤3	1.5-2.5	≤3	1.5-2.0	≤3
R <sub>2</sub> O	-	≤0.5	-	≤0.5	-	≤0.5
S-	-	≤0.2	-	≤0.2	-	≤0.2
CI-	-	≤0.06	-	≤0.06	-	≤0.06
<b>Fineness</b>						
325M (%)	-	≤20	-	≤15	-	≤8
S (m <sup>2</sup> /kg)	-	≤320	-	≤350	-	≤380
<b>Setting time (min)</b>						
IS	50-120	≤30	50-120	≤30	150-210	≤150
FS	90-180	≤360	120-210	≤360	210-300	≤360
<b>Flexural Strength (MPa)</b>						
1d	-	≤5.5	-	≤6.5	-	≤8.5
3d	-	≤6.5	-	≤7.5	-	≤9.5
<b>Compressive strength (Mpa)</b>						
1d	45-55	≤40	50-60	≤50	70-75	≤70
3d	50-60	≤50	60-65	≤60	80-85	≤80