

KUAN-HO REFRACTORIES INDUSTRY CORPORATION

HEAD OFFICE: NO.932, CHIEN FENG ROAD, TOUFEN MIAOLI TAIWAN R.O.C TEL: 886-37-542873-7 FAX: 886-37-541574





THE QUALITY OF LOW CEMENT CASTABLE

Low cement castable are made by talking the advantage of super-fine-powder technique and method for adding de-gluing agent. As the shortcomings of other products result from using a lot of water for construction, this low cement castable can be worked with minimum water thus making the tissue to be very fine and compact with high strength to resist corrosion and wear.

Features:

- Low apparent porosity.
- High strength in various temperature zones.
- Excellent spalling resistance and corrosion resistance.

Typical Properties

E-mail: krics@kric.com.tw

Brand		LCS-A100CR	LCS-A100	LCS-A90	LCS-A80	LCS-A70
Properties						
Max. Service Temperature °ℂ		1800	1800	1800	1700	1700
Quantity Required (Kg/m³)		3270	3070	2890	2740	2820
Water Required For Mixing (%)		5-6	6-8	6.5	7-8	6-8
Chemical Composition (%)	Al_2O_3	83.5	97.8	90	80	71
	SiO_2	$10(Cr_2O_3)$		7.5	15.8	25.1
	CaO	0.7	1.4	1.5	1.5	1.6
Modulus of Rupture After Heating(Mpa) (Bending Strength)	110°C	5.4	-	10.1	13.1	11.9
	1000°C	-	-	9.3	10.5	9.8
	1500°C	29.1	50.6	24.8	17.1	16.0
Cold Crushing Strength(Mpa)	110°C	26.0	=	39.1	35.2	21.8
	1000°℃	-	-	56.3	63.4	41.5
	1500°C	173.7	225.4	77.0	95.0	66.1
Permanent Linear Change(%)	1500°C	0.38	0.40	0.94	0.13	0.68
Apparent Porosity(%)	1500°C	17.03	19.17	23.4	13.5	18.5
Thermal Expansion at1000°C(%)		0.8	0.8	0.7	0.6	0.6
Thermal Conductivity (W/m.k)	At 500°C	4.53	4.65	2.44	2.20	2.10
	At1000°C	3.60	4.41	2.21	1.97	1.63
Application						
Remark						

Brand Properties		LCS-A60	LCS-A50	LCS-A40	
Max. Service Temperature °C		1600 1500		1450	
Quantity Required (Kg/m ³)		2460	2450	50 2420	
Water Required For Mixing (%)		7-8	7-8	7-8	
Chemical Composition Al ₂ O ₃		65.1	54.6	50.0	
(%)	SiO_2	31.1	41.5	41.9	
	CaO	1.6	1.7	2.1	
Modulus of Rupture	110°C	9.1	12.9	11.9	
After Heating(Mpa)	1000°C	8.9	5.4	9.5	
	1500°C	17.0	16.3	14.8(1400°C)	
Cold Crushing	110°C	51.7	65.7	62.6	
Strength(Mpa)	1000°C	63.4	72.8		
	1500°C	85.5	99.5	82. 0(1400°C)	
Permanent Linear Change(%)	1500°C	1.50	1.18	-1.43(1400°C)	
Apparent Porosity(%)	1500°C	14.2	15.0	13.1(1400°C)	
Thermal Expansion at1000°C (%)		0.5	0.5	0.3	
Thermal Conductivity (W/m.k)	At 500°C	1.74	1.74	1.16	
	At1000°C	1.63	1.63	1.16	
Application					
Remark					