

HUANGHE MINERALS CO.,LIMITED		Version: 2020
PRODUCTS SPECIFICATION		Code: T/QA
Product	Refractory Cement	Origin: China / Henan

Code		RC80 [CA80]	RC70 [CA70]	RC55	RC52	RC-50F	RC-40F
PCE (net Cement)		1750-1800C	1550-1650C	1400-1450C	1400-1450C		1250-1300C
Chemical % [GB/T205]							
Al2O3		77-80	68-71	52-55	50-53	50-55	37-42
CaO		19-21	28-30	34-38	35-39	35-39	36-40
SiO2		0.1-0.4	0.2-0.7	5-6	6.5-8	5.5	3-6
Fe2O3		0.1-0.4	0.1-0.5	1.5-2	1.5-2.5	2.5	14-18
TiO2		0.1	0.1	1-3	1-3	1-3	1-4
R2O		<0.4	<0.4	0.4	<0.4	0.4	0.4
Specific Gravity		3.2-3.3	2.9-3.1	2.9-3.1	2.9-3.1		3.2-3.3
Physical							
Initial setting time		(0.5-2.5hrs)	(0.5-2.5hrs)	150-210	50-120 min	120mins	>120
Final setting time		<6hrs	<6hrs	120-300	90-240	480 mins	<400
Flex Strength (MPA)	1 day	5-8	8-11	7-12	6-9	10	5-8 (1day)
	3days	7-10	11-12	9-13	7-11	11	6-9 (3 days)
Compressive. Strength MPA	1 day	40-50	45-55	70-90	40-70	75	50-80
	3 days	50-60	55-65	80-100	50-80	85	60-90
Size 325mesh % Pass		95%min pass	95%min pass	90% min pass	85% min pass		85% pass
Blaine (M2/kg)		>700	>600	> 300	350-450	>400	>300
Mineralogy		CA, CA2, a-al2o3	CA, CA2	CA, CA2, C12A7, C2AS, CT			CA, C12A7, C4AF
Shell life		6 months	6 months	3 months	3 months		3months
Pack		25kg bag in super sack 1250kg, / 25bags on pallet wrapped/ in 1000,1250,1500kg super bag					
Application							
Description		CA cement is made from pure calcined alumina and fine limestone under strict sintering in rotary kiln and grinding system to form a perfect binding agent for refractory industry.		RC cement is made from mixing selected limestone and bauxite, calcined in rotary kiln to get a semi or fully melted clinker with proper mineral phase and grinding to cement with AL2O3 @ 40-55%, the main mineralogy is CA, traditionally also called bauxite cement.			
Application		Higher Al2O3, lower impurities, higher hydraulic strength, higher refractoriness, widely used as binder for Low & ultra-low cement castable for iron and steel, power plant, non-ferrous, cement petrochemicals.		RC cement has earlier strength, quick hardening, widely used for refractory industry on conventional and low cement castable as binder due to its good high temperature performance, also in quick hardening building and chemical flooring application, petrochemical kilns, power plant anti abrasion lining and pipe lining due to its good self-flow, anti-chemical attack characters.			
Countertype		Secar80, CA80	Secar71, CA70	Secar51, Refro50, A900, A700			Fondu , Recipro40

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**Contact: Max Hou (sales director)**

**Tel: 86-22-23554891**

**Fax: 86-22-23554892**

**Website: [www.huangheminerals.com](http://www.huangheminerals.com)**

**E-mail: [huanghetj@hotmail.com](mailto:huanghetj@hotmail.com)**