



HUANGHE MINERALS CO.,LIMITED
PRODUCTS SPECIFICATION
PRODUCT REFRACTORY CEMENT

VERSION: 2006
CODE: T/QA
ORIGIN: CHINA / HENAN

| Code | CA80 | CA70 | RC-65 | RC-52 | RC-52F | RC-40F |
|--|---|------------------------------|--|--|------------------------|---|
| Chemical % [GB/T205] | | | | | | |
| Al ₂ O ₃ | 77 (82) | 68(72) | 60 (65) | 52 (55) | 55 | 37 |
| CaO | 22 | 30 | 25 (29) | 32 (35) | | |
| SiO ₂ | 0.5(0.3) | 1(0.5) | 6(4) | 8.0 (6.0) | 5.5 | 6 |
| Fe ₂ O ₃ | 0.5(0.2) | 0.7 (0.2) | 2 (1.5) | 2.5 (2.0) | | 18 |
| R ₂ O | 0.4 | 0.4 | 0.4 | 0.4 | | |
| Physical | | | | | | |
| Initial setting time [GB201 A] | >0.5hr (0.5-2.5hrs) | >0.5hr (0.5-2.5hrs) | >1hr (1-4hrs) | > 0.5hr (0.5-2.5hrs) | 2hrs | >0.75hr |
| Final setting time [GB201 A] | <6hrs (1-6hrs) | <6hrs (1-6hrs) | <18hrs (2-10hrs) | <6hrs (3-5hrs) | 8hrs | <3hrs |
| Flexural strength (MPa) [GB/T1761,GB201-2000] | 4-5 (1day) 5-6 (3days) | 5-6 (1day) 6-7 (3days) | 2.5-5 (1day) 5-7 (3days) 10 (28days) | 6-9 (1day) 7-10 (3 days) | 10 11 | 5-8 (1day) 6-9 (3 days) |
| CCS (MPa) [GB/T1761,GB201-2000] | 25-40 (1day) 30-50 (3days) | 30-50 (1day) 40-60(3days) | 25-60 (1day) 45-70 (3days) 85 (28days) | 40-70 (1 day) 50-80 (3 days) | 75 85 | 50-80 (1day) 60-90(3 days) |
| Size [GB/T1345] | 325mesh 95%min pass | 325mesh 95%min pass | 325 mesh 95%min pass | 200mesh 95%min pass | | 200mesh 95%min pass |
| Blaine (M ₂ /kg) [GB/T8074] | >700 | >600 | > 300 | >300 | >400 | >270 |
| Mineralogy | CA, CA ₂ ,a-Al ₂ O ₃ | CA, CA ₂ | CA ₂ , CA, C ₂ A ₂ S | CA, CA ₂ , CT,C ₂ AS | | CA, C ₂ AS, C ₂ F |
| Pack | 25kg/50kg bags stuffed in super sack/ 25/50kg bags on pallet wrapped/ in 1mt bag/ | | | | | |
| Description | CA cement is made from pure calcined alumina and fine lime stone under strict mineralogical control in rotary kiln calcinations to form clinker and ground to cement, typical CA70 and CA80. | | RC cement is made from mixing selected limestone and bauxite, calcined to partly or fully melted in rotary kiln, the clinkers are ground to cement. AL ₂ O ₃ —40-65%, the main mineralogy is CA, which can assure high earlier strength, quick hardening, and high refractoriness, suggest application temperature is 1400C. | | | |
| Application | Higher Al ₂ O ₃ , lower impurities, higher strength, widely applied for LCC or ULCC as hydraulic binder for refractory materials, used in metallurgical, chemistry, power-plant, building industries. | | RC cement has earlier strength, quick hardening, widely used for refractory industry on monolithics, also some quick hardening building materials due to its good self-flow, anti-chemical attack characters. | | | |
| Counter-type | Secar 80 | Secar 71 | Secar 60 | | Secar51 | Fundu 41 |
| Price | | | | | | |