

ROYAL REFRACTORIES

MANUFACTURERS & DEALERS IN REFRACTORIES & MINERALS

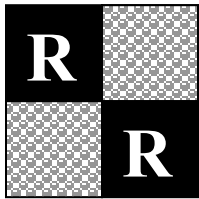
28 G.I.D.C., WANKANER – 363 622 TELEFAX : (F) (02828) 220533 , 222533 (R) 220883 , 222883

TIN G.S.T. No. 24092200055 Dtd. 23-09-05

TIN C.S.T. No. 24592200055 Dtd. 23-09-05

DENSE CASTABLES

BRAND NAME	ROYAL CRETE	ROYAL CRETE SPECIAL	ROYAL CRETE SUPER
Nature of Bond	Hydraulic	Hydraulic	Hydraulic
Application Method	Vibro Casting	Vibro Casting	Vibro Casting
GENERAL PROPERTIES			
Service Temp(max) °C	1400	1350	1450
Refractoriness(min) °C	20/23 1564/1605	450	31/32 1683/1717
Grain Size mm(max)	5	5	5
CHEMICAL ANALYSIS			
Al ₂ O ₃ (%) min.	45	45	70
Fe ₂ O ₃ (%) max.	4	4	4.2
PHYSICAL PROPERTIES			
Bulk Density (gm/cc)min	2.10	2.20	2.50
C.C.S (kg / cm ²) min			
110 °C	250	400	350
1350 °C	225	300	-
1450 °C			450
P.L.C.(%)max.			
800 °C	-0.12	-0.12	-0.12
1100 °C	-0.12	-0.15	-0.18
1350 °C	+/-1.0	-0.8	-
1450 °C	-	-	-0.8
Thermal Conductivity(Kcl/M/Hr/°C max Typical Value)			
At			
400 °C	0.74	0.71	0.93
600 °C	0.78	0.80	0.95
800 °C	0.84	0.84	0.98
Water requirement (%)	11 - 12	11 - 12	11 - 12



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DENSE CASTABLES

BRAND NAME	ROYAL HEAT - C	ROYAL HEAT - K	ROYAL HEAT - A
Nature of Bond Application Method	Hydraulic Vibro Casting	Hydraulic Vibro Casting	Hydraulic Vibro Casting
GENERAL PROPERTIES			
Service Temp(max) °C	1500	1600	1700
Grain Size mm(max)	5	5	5
CHEMICAL ANALYSIS			
Al ₂ O ₃ (%) min.	50	60	90
Fe ₂ O ₃ (%) max.	1.5	1	0.8
PHYSICAL PROPERTIES			
Bulk Density (kg/m)			
110 °C	2100	2200	2800
C.C.S (kg / cm ²) min			
110 °C	350	350	600
800 °C	270	280	410
1100 °C	220	220	320
1500	500	500	-
1500	-	-	650
P.L.C. (%) max.			
800 °C	-0.12	-0.12	-0.06
1100 °C	-0.18	-0.18	-0.12
1500 °C	-0.80	-0.70	-0.80
Refractoriness(min)	30/31 1665/1683	31/32 1683/1717	37 / 1820
Thermal Conductivity (Kcal/M/Hr/ °C)max (Typical Value)			
At			
500 °C	0.76	0.78	1.18
800 °C	0.8	0.85	1.28
Water requirement (%)	11 - 12	11 - 12	8 - 9