

Regular Castables

BRAND NAME		KOSACAST									
ITEMS		-SP	-30	-40	-45	-50	-55	-60	-70	-90	-95
Max. Service Temp. (°C)		1300	1300	1400	1500	1550	1600	1650	1700	1800	1850
Dry Material Required. For Estimating (Ton/m³)		2.00	1.90	1.95	2.05	2.10	2.15	2.20	2.25	2.80	2.90
Permanent Linear Change (%)	110°C x 24h	-0.1	-0.1	-0.1	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
	1000°C x 3h	at 1200°Cx3h -0.4	at 1200°Cx3h -0.3	-0.2	-0.2	-0.2	-0.1	-0.2	-0.1	-0.1	-0.1
	1350°C x 3h	-	-	-0.3	-0.4	-0.4	-0.2	-0.3	-0.2	-0.2	-0.1
	1500°C x 3h	-	-	-	-	-	-	-0.4	-0.4	-0.3	-0.2
Cold crushing Strength (Modulus of Rupture) (Kg/cm²)	110°C x 24h	300 (60)	150 (40)	200 (50)	200 (50)	250 (40)	200 (35)	250 (40)	250 (50)	400 (70)	600 (100)
	1000°C x 3h	at 1200°C x 3h 250 (40)	at 1200°C x 3h 120 (30)	150 (40)	180 (40)	200 (30)	150 (30)	150 (30)	250 (40)	350 (60)	500 (90)
	1350°C x3h	-	-	200	300 (80)	250	200 (40)	250	300	400	600
	1500°C x 3h	-	-	-	-	-	-	350 (70)	350 (70)	500 (90)	800 (120)
Thermal Conductivity (Kcal/mh°C)	250°C	0.50	0.50	0.51	0.50	0.63	0.64	0.64	0.70	0.90	0.93
	550°C	0.54	0.55	0.60	0.54	0.72	0.70	0.76	0.77	0.95	0.98
	800°C	0.61	0.63	0.64	0.61	0.83	0.85	0.85	0.84	1.00	1.05
Chemical Composition (%)	Al ₂ O ₃	36	30	40	45	48	53	60	69	90	95
	SiO ₂	55	64	55	47	44	43	35	26	-	-
Water Required (%)		12	14	13	12	11	10	10	10	8	7
Setting Type		HYDRAULIC									
Installation Method		CASTING									
Applications		* General Kiln and Furnace * Reheating Furnace and Soaking Pit * Chemical Industry, etc.									

Regular Castables

BRAND NAME		KOSACAST							
ITEMS		ES	-40S	-45S	-50S	-50TP	-60S	-70S	-90S
Max. Service Temp. (°C)		1300	1400	1500	1600	1600	1650	1700	1800
Dry Material Required. For Estimating (Ton/m ³)		1.90	2.00	2.00	2.10	2.15	2.25	2.30	2.90
Permanent Linear Change (%)	110°C x 24h	-0.1	-0.05	-0.05	-0.05	-0.06	-0.05	-0.05	-0.05
	1000°C x 3h	at1200°C x 3h -0.4	-0.1	-0.1	-0.1	-0.4	-0.1	-0.1	-0.1
	1350°C x 3h	-	-0.5	-0.4	-0.3	-0.4	-0.3	-0.2	-0.2
	1500°C x 3h	-	-	-	-	-	-0.4	-0.4	-0.3
Cold crushing Strength (Modulus of Rupture) (Kg/cm ²)	110°C x 24h	400 (70)	350 (60)	350 (60)	400 (70)	150 (35)	400 (60)	500 (80)	600 (100)
	1000°C x 3h	at1200°C x 3h 250(50)	250 (40)	250 (40)	300 (50)	130 (25)	250 (40)	400 (70)	500 (90)
	1350°C x 3h	-	300 (50)	300 (50)	350 (80)	150 (40)	400 (60)	500 (80)	600 (100)
	1500°C x 3h	-	-	-	-	(120)	600 (100)	600 (100)	700 (120)
Thermal Conductivity (Kcal/mh°C)	250°C	0.50	0.52	0.52	0.65	0.65	0.64	0.71	0.93
	550°C	0.56	0.61	0.56	0.74	0.74	0.76	0.79	0.97
	800°C	0.65	0.66	0.67	0.84	0.86	0.87	0.85	1.03
Chemical Composition (%)	Al ₂ O ₃	30	40	47	49	50	60	70	90
	SiO ₂	60	52	45	43	40	34	25	-
Water Required (%)		13	13	13	11	14.0	10	9	8
Setting Type		HYDRAULIC							
Installation Method		CASTING							
Applications		* High Strength Abrasion Resistance * Cement Industry. etc.							