

# Regular Insulating Castables

BRAND NAME		KOSALITE							
ITEMS		-15	-18	-20	-22	-24	-26	-29	-SUPER
Max. Service Temp. (°C)		800	1000	1100	1200	1350	1400	1600	1700
Dry Material Required. For Estimating (Ton/m <sup>3</sup> )		0.85	1.10	1.15	1.20	1.25	1.35	1.50	1.50
Permanent Linear Change (%)	110°C x 24h	-0.1	-0.1	-0.1	-0.05	-0.05	-0.05	-0.05	-0.05
	1000°C x 3h	at 500°C x 3h -0.3	at 800°C x 3h -0.6	-0.40	-0.10	-0.50	-0.30	-0.20	-0.30
	1350°C x 3h	-	-	-	-	-	-	-0.40	-0.50
Cold crushing Strength (Modulus of Rupture) (Kg/cm <sup>2</sup> )	110°C x 24h	20 (10)	60 (20)	80 (30)	80 (30)	80 (30)	100 (40)	80 (30)	150 (40)
	1000°C x 3h	at 500°C x 3h 10 (5)	at 800°C x 3h 30 (10)	50 (20)	50 (20)	60 (20)	60 (20)	60 (20)	80 (30)
	1350°C x 3h	-	-	-	-	-	at 1200°C x 3h 70 (30)	110 (40)	100 (30)
Thermal Conductivity (Kcal/mh°C)	250°C	0.15	0.25	0.27	0.29	0.33	0.33	0.51	0.75
	550°C	0.18	0.29	0.31	0.32	0.38	0.37	0.56	0.81
	800°C	-	-	0.35	0.36	0.41	0.42	0.64	0.85
Chemical Composition (%)	Al <sub>2</sub> O <sub>3</sub>	25	28	30	32	45	50	61	92
	SiO <sub>2</sub>	58	56	55	52	38	38	21	-
Water Required (%)		60	35	34	32	30	25	20	18
Setting Type		HYDRAULIC							
Installation Method		CASTING							
Applications		* Petrochemical Industry * Lining & Back up General Kiln & Furnace. etc.							

# Regular Insulating Castables

BRAND NAME		KOSALITE						
ITEMS		-10VS	-15VS	-18VS	-20VS	-22VS	-24VS	-26VS
Max. Service Temp. (°C)		500	800	1000	1100	1200	1350	1400
Dry Material Required. For Estimating (Ton/m <sup>3</sup> )		0.90	0.45	0.70	0.80	0.90	1.00	1.20
Permanent Linear Change (%)	110°C x 24h	-0.1	-0.1	-0.1	-0.1	-0.05	-0.05	-0.05
	1000°C x 3h	at 500°C x 3h -0.7	at 500°C x 3h -0.5	at 800°C x 3h -0.8	-0.8	-0.4	-0.4	-0.3
	1350°C x 3h	-	-	-	-	-	-	-
Cold crushing Strength (Modulus of Rupture) (Kg/cm <sup>2</sup> )	110°C x 24h	40 (10)	10 (-)	15 (10)	30 (15)	40 (20)	60 (30)	60 (30)
	1000°C x 3h	at 500°C x 3h 20 (5)	at 500°C x 3h 5 (-)	at 800°C x 3h 10 (5)	20 (10)	30 (15)	40 (20)	50 (20)
	1350°C x 3h	-	-	-	-	-	-	at 1200°C x 3h 60 (30)
Thermal Conductivity (Kcal/mh°C)	250°C	0.17	0.12	0.14	0.15	0.21	0.25	0.27
	550°C	0.20	0.18	0.16	0.18	0.24	0.26	0.30
	800°C	-	-	-	0.21	0.28	0.30	0.32
Chemical Composition (%)	Al <sub>2</sub> O <sub>3</sub>	15	22	27	29	34	44	52
	SiO <sub>2</sub>	65	60	56	53	48	40	33
Water Required (%)		55	100	70	48	48	46	35
Setting Type		HYDRAULIC						
Installation Method		CASTING						
Applications		* Petrochemical Industry * Lining & Back up General Kiln & Furnace. etc						