Technical Data Sheet

YK-28

YK-28 Insulating Firebrick is a high alumina type of insulating firebrick in accordance with ASTM

Characteristic

- Low iron oxide
- Low thermal conductivity
- High spalling resistance

Application

- Hot face lining
- Back up insulation
- Reducing atmosphere furnace

Classification temperature 1538° C (2800° F)

		ASTM	SPECIFICATION	AVERAGE
Bulk density	g / cm^3	Group 26	0.96 max	0.88
Thermal conductivity	W / mK (kcal / m h° C)		at 350°C JIS R2616 at 400°C ISO 8894 at 600°C ISO 8894 at 800°C ISO 8894	0.26 (0.22) 0.34 (0.29) 0.37 (0.32) 0.41 (0.35)
Cold crushing strength	Mpa kgf / cm^2	C 93	- -	1.4 14
Modulus of rupture	MPa kgf / cm^2	C 93	- -	1.3 13
Reheat shrinkage at ° C x 24 hrs (2750°F) at ° C x 24 hrs (2750°F)	%	C 210 JIS R2613	2.0 max	0.73 (1510°C) 0.40 (1500°C)
Thermal expansion at 1000°C		JIS R2617	-	0.48

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Chemical analysis - JIS R2216	%		
$Al_2 O_3$		-	62
$Fe_2 O_3$		-	0.8
Dimensional tolerance - JIS R2150	mm		
length	230	$\pm$ 3.5	$\pm$ 1.0
width	114	$\pm$ 2.0	$\pm$ 1.0
thickness	65	$\pm$ 2.0	$\pm$ 1.0

Recommended Mortar	**RM-1500**
Standard Packing	10 pcs / pack for standard size

Data are average results of standard tests which are subject to variation and should not be used as specification.