

## **KUAN-HO REFRACTORIES INDUSTRY CORPORATION**

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## THE QUALITY OF RAMMING MASS FOR BLAST FURNACE

Ramming mixes consist of refractory materials in carefully graded particle sizes and small amount of special binders to make the mixes more workable and easily bonded. Refractory materials, used are similar to those for bricks and other mololithic refractories such as fireclay, graphite, silica sand, high alumina, zircon and most basic materials.

They are supplied either in dry powder or paste. Dry mixes are prepared for use by adding water and mixing

while the wet form is ready for use. Once rammed into place, dried and heated, the ramming mixes forms a dense and strong monolithic refractory structure. There are various brands of ramming mix available, each mix has its own advantages or particular characteristics such as: volume stability, good strength over wide range of temperature, resistance to chemical corrosion. These mixes are especially suitable for metallurgical and processing industries.

**Typical Properties** 

Brand		8A	8AK
Max. Service Temperature(°ℂ)		1700	1700
Amount For Installation (kg/m <sup>3</sup> )		2800	2770
Bulk Density		2.85	2.78
Apparent Porosity(%)		16.20	17.21
Cold Crushing Strength After heating (Mpa)1450°C*3hrs		55.0	56.0
Modulus of Rupture	350°C *3hrs	_	_
Mpa	1000°C *3hrs	3.0	4.0
	1300°C *3hrs	_	_
	1450°C *3hrs	8.8	8.0
Permanent Linear	350°C *3hrs	_	_
Change (%)	1000°C *3hrs	+0.03	+0.03
	1300°C *3hrs	_	_
	1450°C *3hrs	+0.12	+0.19
Chemical	$Al_2O_3$	65	61
Composition (%)	SiC	18	26
	С	4.2	2.5
Application		Blast Furnace Trough Ramming Mass (Iron Line)	Blast Furnace Trough Ramming Mass (Slag Line)