

Moravské keramické závody akciová společnost Rájec-Jestřebí	ZTS, TS-1, UŽH, BTS RAMMING MIXES FOR BLAST FURNACE RUNNERS	Product sheet MKZ 01/Z 02/2007
---	--	-----------------------------------

Description : Ramming materials for blast furnace runners are mixtures of refractory opening material, binder and liquid component supplied in granular form for direct placing by mechanical or manual ramming.

Use : Ramming mixes for blast furnaces are used for the construction and repairs of monolithic lining, blast furnace runners and tapping spouts. Ramming mixes are suitable for all kinds of runner channels.

Grades :

- ZTS** - zirconia ramming mix for blast furnace runners
- TS-1** - refractory ramming mix for blast furnace runners
- UŽH** - corundum ramming mix for blast furnace runners
- BTS** - bauxite ramming mix for blast furnace runners

Specifications :

Properties	Guaranteed values				Testing procedure
	ZTS	TS-1	UŽH	BTS	
Al ₂ O ₃ content min.	30%	38%	45%	70%	ČSN EN 955-2
Loss on ignition min.	14%	14%	14%	14%	ČSN EN 955-2
Grain size 0-6.3mm min.	80%	80%	80%	80%	ČSN EN 1402-3
Grain size 6.3-8.0mm max.	20%	20%	20%	20%	ČSN EN 1402-3
Moisture content max.	8%	8%	8%	8%	ČSN EN 1402-3
Properties	Normal values				Testing procedure
SiO ₂ content	54%	46%	40%	14%	ČSN EN 955-2
Fe ₂ O ₃ content	1.8%	1.8%	1.7%	2.1%	ČSN EN 955-2
ZrO ₂ content	7%	-	-	-	ČSN 72 6028
SiC content	-	-	-	-	-
Specific consumption per 1 tonne of pig iron	0.40-0.60 kg	0.40-0.60 kg	0.30-0.50 kg	0.20-0.40kg	-
service temperature	max. 1650°C				-

The values of chemical elements are in annealed quality.

The properties are checked using a single acceptance sampling plan with a guaranteed mean value and an unknown standard deviation in accordance with ČSN ISO 5022.

Packaging : The mixes are packed in PE bags stored and shipped in returnable metal containers.

Storing : The ramming mixes for blast furnace runners should be stored in warehouses at a moderate temperature (min. +5.0°C).
The storage period is max. 6 months from the date of delivery.

Ing. Milan Čvanda
Managing Director and Chairman of the Board

Supersedes: ML MKZ 01/Z 02/2003	Page: 1/1	Effective from: 1.4.2007
---------------------------------	-----------	--------------------------