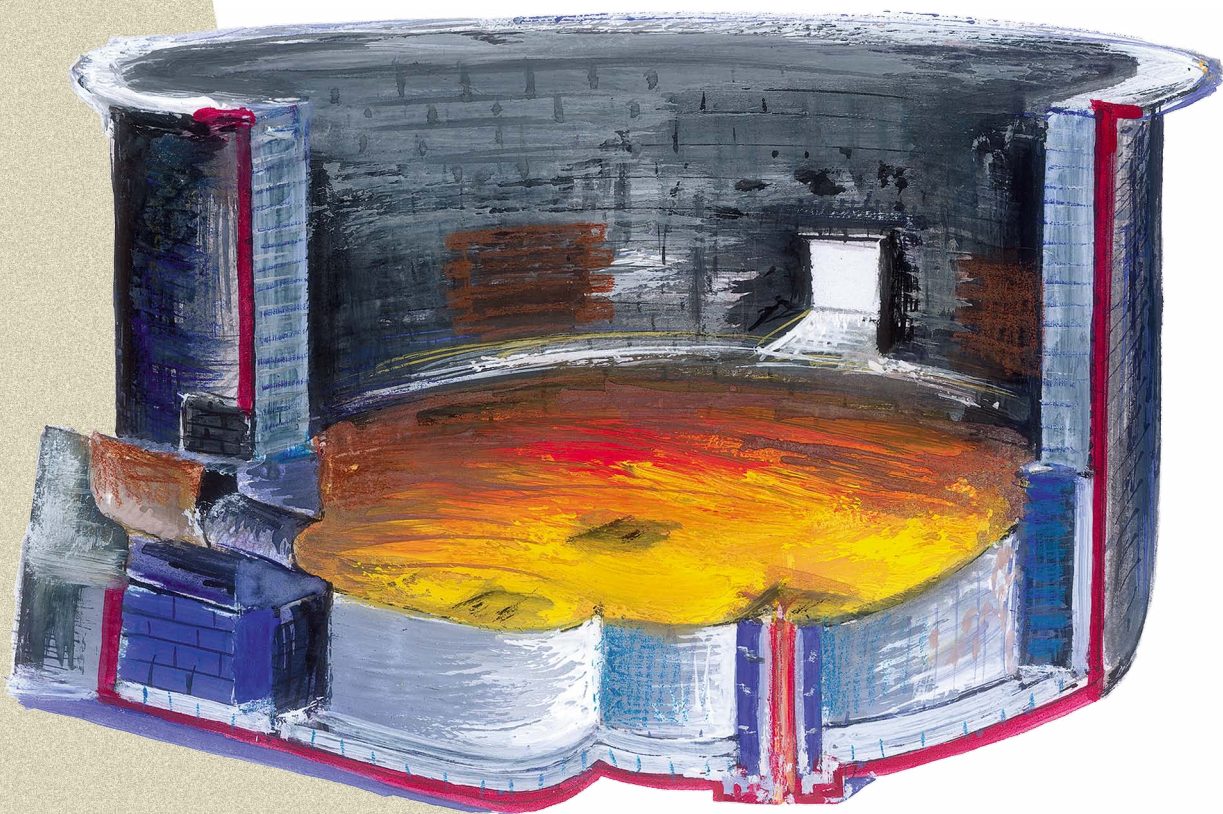




**SLOVENSKÉ MAGNEZITOVÉ ZÁVODY**  
AKCIOVÁ SPOLOČNOSŤ  
JELŠAVA

**ELECTRIC ARC FURNACES**







# TRADITION TOP QUALITY EXPORT TO ALL OVER THE WORLD

**Production and delivery for metallurgical, ceramic, chemical  
and building industry and agriculture**

## **Metallurgical and ceramic industry**

- sintered magnesite for brickmaking
- ramming mixes
- repair mixes
- gunning and parging mixes
- filling mixes
- slurry gunning mixes for tundishes
- slagging mixes
- mortars

## **Chemical industry**

- raw magnesite
- brickmaking powder

## **Agriculture**

- Agromag grade products
- CCM grade products

## **Building industry**

- magnesite sand and gravel of different fractions

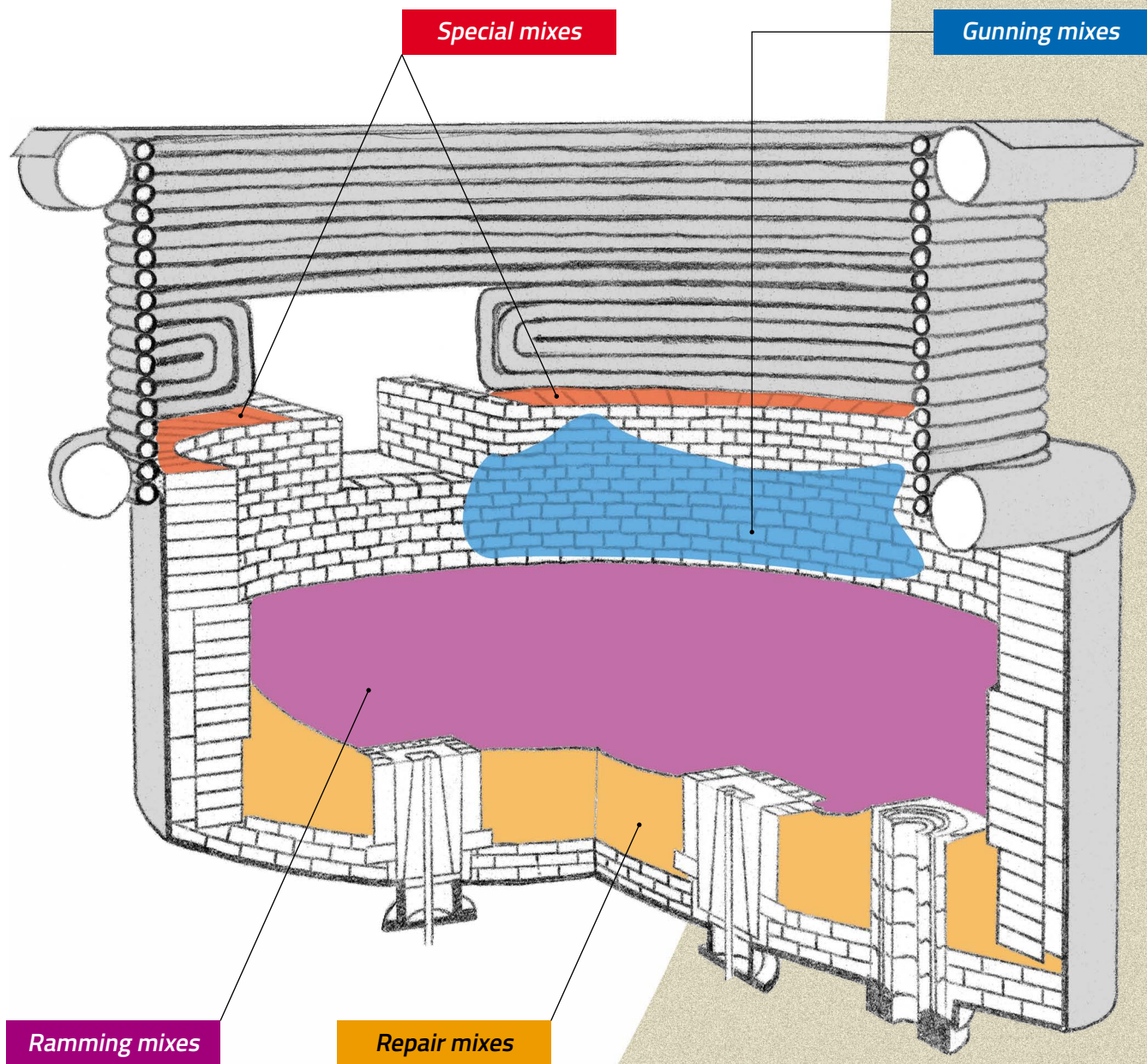


Slovak magnesite works, JSC, Jelšava is one of the top European and world producers of basic monolithic mixes. The company offers to its customers quality, long-time tradition, reliability and precision to become a key market player on the market at four continents of the world.

## **BASIC REFRACTORY MONOLITHIC MIXES**

- **RAMMING**
- **REPAIR**
- **SLURRY GUNNING**
- **GUNNING**
- **FILLING**

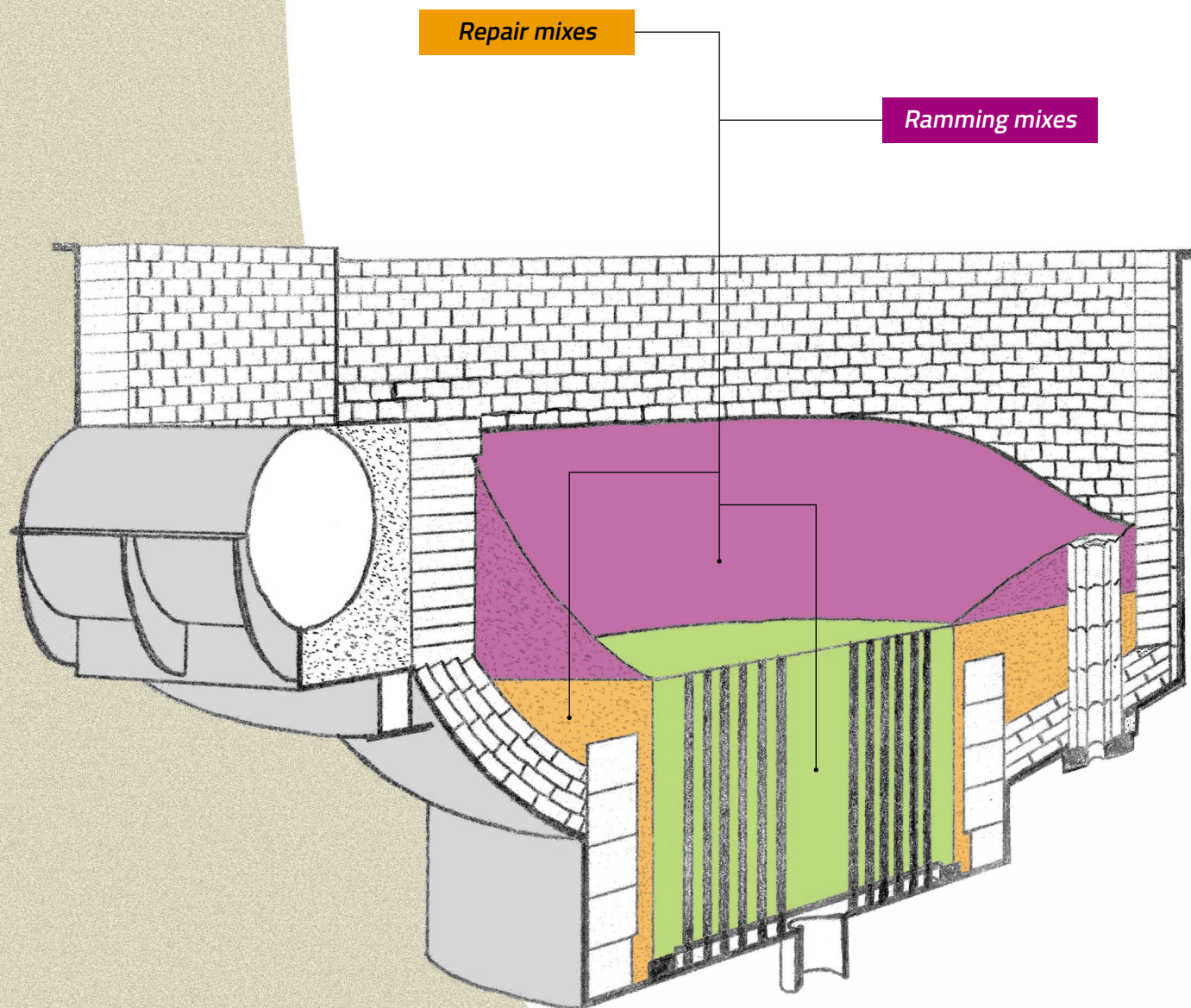




Product	MgO [%]	Characteristic - field of application	BD [kg.dm <sup>-3</sup> ]	Grainsize [mm]	Temperature [°C]	Bond
<b>RAMMING MIXES</b>						
JEHEARTH 11-52 JEHEARTH 11	82,0 82,5	<ul style="list-style-type: none"> <li>Basic refractory ramming mixes, produced on the basis of Jelsava sintered magnesia.</li> <li>Hearth and slopes.</li> </ul>	2,60 2,65	0-6 0-6	1 700 1 700	ceram. ceram.
JEHEARTH 82 JEHEARTH 07 JEHEARTH 35 C JEHEARTH 355 D JEHEARTH 405 JEHEARTH 358 JEHEARTH 28 JEHEARTH 82 SL	82,0 82,5 84,5 84,5 84,5 82,0 82,5 82,5	<ul style="list-style-type: none"> <li>Basic refractory ramming mixes, produced on the basis of Jelsava sintered magnesia and best worldwide dead burned magnesia.</li> <li>Hearth.</li> <li>Slopes.</li> </ul>	2,70 2,70 2,75 2,75 2,75 2,75 2,70 2,80	0-6 0-6 0-6 0-6 0-6 0-8 0-8 0-8	1 750 1 750 1 750 1 750 1 780 1 750 1 750 1 750	ceram. ceram. ceram. ceram. ceram. ceram. ceram. ceram.
JEHEARTH 30 BA JEHEARTH 28 BA	84,5 79,0	<ul style="list-style-type: none"> <li>Slopes - special mix with higher plasticity.</li> </ul>	2,80 2,80	0-6 0-8	1 780 1 780	ceram. ceram.
JEHEARTH 33 GP	84,5	<ul style="list-style-type: none"> <li>Bottom purging area.</li> </ul>	2,80	0-6	1 780	ceram.
<b>MIXES FOR SPECIAL USE</b>						
JEMIX 589	86,0	<ul style="list-style-type: none"> <li>Special ramming mixes, produced on the basis of Jelsava sintered magnesia and best worldwide dead burned magnesies.</li> <li>Spout-wear lining (last line of brick lining).</li> </ul>	2,50	0-5	1 700	chem.
INTROMAG	44,0	<ul style="list-style-type: none"> <li>Starting mix for tap hole.</li> </ul>	1,90	2-6	1 800	ceram.

\* - following the consultations and costumer's requirements the modification in chemical and physical parameters is possible. The parameters are typical.





Product	MgO [%]	Characteristic - field of application	Grainsize [mm]	Temperature [° C]	Bond
GUNNING MIXES					
JEGUN 378	81,0	<ul style="list-style-type: none"><li>Basic refractory gunning mixes, produced on the basis of Jelsava sintered magnesia.</li><li>Slag line, slopes. Applicable to hot and cold gunning.</li></ul>	0-2	1 700	chem.
JEGUN 589	81,5		0-2	1 700	chem.
JEGUN 78 C	78,0		0-3	1 750	chem.
JEGUN 478	81,5		0-3	1 700	chem.
JEGUN 378/1	83,5		0-3	1 700	chem.
JEGUN EXTRA 35	83,5	<ul style="list-style-type: none"><li>Basic refractory gunning mixes, produced on the basis of Jelsava sintered magnesia and best world dead burned magnesia.</li><li>Slag line, slopes. Applicable to hot and cold gunning.</li></ul>	0-3	1 750	chem.
JEGUN EXTRA	85,5		0-3	1 780	chem.
JEGUN TTO 12	81,0		0-4	1 750	chem.
REPAIR MIXES					
JEFRIT 083	83,0	<ul style="list-style-type: none"><li>Basic refractory repair mixes, Applicable to sintered magnesia.</li><li>Wall.</li><li>Hearth bottom.</li><li>Slope.</li></ul>	0-5	1 750	ceram.
JEFRIT GMI - 0-4 / 0-6 / 0-8	76-83,0		0-8	1 750	ceram.
JEFRIT 079	82,0		0-8	1 730	ceram.
JEFRIT 48	82,0		0-8	1 730	ceram.

\* - following the consultations and costumer's requirements the modification in chemical and physical parameters is possible. The parameters are typical.





#### Appendix I

**Slovenské magnezitové závody, akciová spoločnosť, Jelšava**  
**Teplá Voda 671**  
**04916 Jelšava**  
**Slovakia**  
GMP+ International Registration number: PDV112536

Lloyd's Register Quality Assurance has assessed the following activities:

#### Production of magnesium oxide.

This certificate schedule is valid only in association with the certificate bearing the same number on which the related activities applicable to this approval are listed.

Approval Certificate No:	Original Approval	:	8 May 2013
PRA 6014369	Current Certificate	:	8 May 2013
	Certificate Expiry	:	7 May 2016

Page 1 of 1



K.P. van der M...



#### PROCESS CERTIFICATE

**Slovenské magnezitové závody, akciová spoločnosť, Jelšava**  
**Teplá Voda 671**  
**04916 Jelšava**  
**Slovakia**  
GMP+ International Registration number: PDV112536

Lloyd's Register Quality Assurance declares that it has justifiable confidence that the process(es)

#### Production of feed, feed materials

at the company location **Slovenské magnezitové závody, akciová spoločnosť, Jelšava** complies with the applicable requirements and conditions of the standard(s)

#### GMP+ B2 (2010): Production of Feed Ingredients

of the GMP+ FSA Scheme (Based on the GMP+ C6) of GMP+ International.

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

Approval Certificate No:	Original Approval	:	8 May 2013
PRA 6014369	Current Certificate	:	8 May 2013
	Certificate Expiry	:	7 May 2016

Issued by: Lloyd's Register Nederland B.V.



This document is subject to the provision on the reverse  
K.P. van der Mandelelaan 41a, 3062 MB Rotterdam, The Netherlands - KvK nr. 24247948  
The approval is carried out in accordance with the LRQA assessment and certification procedures and monitored by LRQA.  
Lloyd's Register Quality Assurance: ID nr. 30073



#### CERTIFICATE OF APPROVAL

This is to certify that the Environmental Management System of:

**Slovenské magnezitové závody,**  
**akciová spoločnosť, Jelšava**  
**Teplá voda 671**  
**049 16 Jelšava**  
**Slovak Republic**

has been approved by Lloyd's Register Quality Assurance to the following Environmental Management System Standards:

#### ISO 14001:2004

The Environmental Management System is applicable to:

#### Production and processing of magnesite.

Approval Certificate No:	Original Approval:	7 December 2012
PRA 6014796	Current Certificate:	7 December 2012
	Certificate Expiry:	6 December 2015

Issued by: Lloyd's Register EMEA, Prague office,  
for and on behalf of Lloyd's Register Quality Assurance Limited



This document is subject to the provision on the reverse.  
Taborská 31, 140 00 Prague 4, Czech Republic  
For and on behalf of 71 Fenchurch Street, London EC3M 4BS, United Kingdom  
This approval is carried out in accordance with the LRQA assessment and certification procedures and monitored by LRQA.  
The use of the UKAS Accreditation Mark indicates Accreditation in respect of those activities covered by the Accreditation Certificate Number 001.  
See Annex 1



#### CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of:

**Slovenské magnezitové závody,**  
**akciová spoločnosť, Jelšava**  
**Teplá voda 671**  
**049 16 Jelšava**  
**Slovak Republic**

has been approved by Lloyd's Register Quality Assurance to the following Quality Management System Standards:

#### ISO 9001:2008

The Quality Management System is applicable to:

#### Manufacture and design of sintered magnesia and refractory basic monolithics.

Approval Certificate No:	Original Approval:	30 December 1994
PRA 0004421	Current Certificate:	7 November 2012
	Certificate Expiry:	6 November 2015

Issued by: Lloyd's Register EMEA, Prague office,  
for and on behalf of Lloyd's Register Quality Assurance Limited



This document is subject to the provision on the reverse.  
Taborská 31, 140 00 Prague 4, Czech Republic  
For and on behalf of 71 Fenchurch Street, London EC3M 4BS, United Kingdom  
This approval is carried out in accordance with the LRQA assessment and certification procedures and monitored by LRQA.  
The use of the UKAS Accreditation Mark indicates Accreditation in respect of those activities covered by the Accreditation Certificate Number 001.  
See Annex 1

## MINISTER HOSPODÁRSTVA SLOVENSKEJ REPUBLIKY

UDELUJE

### OCENENIE



**NAJLEPŠÍ EXPORTÉR ROKA 2002**

**SLOVENSKÉ MAGNEZITOVÉ ZÁVODY, a.s.**  
**Jelšava**

MINISTER HOSPODÁRSTVA SR





## SLOVENSKÉ MAGNEZITOVÉ ZÁVODY akciová spoločnosť, Jelšava

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