

**MECHXPORT**™

The  
**Steefo**<sup>®</sup>  
Group



# SILICA RAMMING MASS

## What is Ramming Mass?

Ramming Mass is an acidic refractory material used in Induction Furnaces. It is highly resistant to decomposition by intense heat ( $>1800^{\circ}\text{C}$ ) and chemical attack, maintaining its strength and rigidity even under extreme operating conditions.

## Composition:

- Carefully graded **Silica Grains**
- Binder Options:
  - Boric Acid (HBO<sub>3</sub>)**
  - Boron Compound (B<sub>2</sub>O<sub>3</sub>)**

## Where is Ramming Mass Used?

Ramming Mass is used to create the lining of induction furnaces of various capacities. A precise mixture of chemical compounds ensures:

- Protect & Enhance furnace life
- Work as insulator to prevent heat-leak & Speed-up steel melting
- Consistent and efficient performance

## How is Ramming Mass Used?

1. Preparation: A mix of silica grains and boric acid/boron compounds is used.
2. Furnace Lining: The mixture is filled consistently between the steel former and furnace inside wall.
3. Compaction: An electro vibrator compacts the mass evenly along the furnace lining.
4. Sintering: Steel scrap is gradually charged while increasing the power, helping to sinter the lining.
5. Ready to Use: Once sintered, the furnace is prepared for the metal melting process.

## Why Choose Mechxport Ramming Mass?

### Decades of Experience:

With deep roots spanning over 45+ years in the steel industry and hands-on experience from operating our own steel plants, Mechxport delivers quality you can trust.

### Uncompromising Quality:

- Controlled from mine to packaging (Sourced from single mine resource)
- Daily batch testing at our production facility
- Custom mixtures tailored for each order
- Skilled workforce ensuring consistency and reliability
- State-of-the-art production facility
- On-time delivery at fair price

## Our Products

### RMX ALPHA



#### Postmix

(98%+ SiO<sub>2</sub>)

### RMX SUPREME



#### Premix

(Silica with Boric Acid)

### RMX ULTIMATE



#### Premix

(Silica with Boron Compounds)

## RMX ALPHA

RMX Alpha is made from selected quartzite grains sourced from single mine. It is processed in state-of-the-art facility equipped with latest technology, skilled workforce and stringent quality processes in place. The right mixture of grain size and mesh powder is maintained for optimal performance, easy application and increased heat cycles.

Brand name	RMX Alpha (Silica Ramming Mass - Post Mix)
Base Raw Material	Quartzite
SiO <sub>2</sub>	98% ++
CaO	0.07% Max
Fe <sub>2</sub> O <sub>3</sub>	0.40% Max
Al <sub>2</sub> O <sub>3</sub>	0.25% Min
Moisture	NIL
Size	0 - 6 MM Grains with 200 Mesh Powder

## RMX SUPREME

RMX Supreme is made of RMX Alpha mixed with Boric Acid HBO<sub>3</sub>. High-quality Boric Acid is mixed in calculated ratio controlled parameters to provide optimum performance.

Brand name	RMX Supreme (Silica Ramming Mass with Boric Acid - Pre Mix)
Base Raw Material	Quartzite
SiO <sub>2</sub>	98% ++
HBO <sub>3</sub>	0.80 - 1.50%
CaO	0.07% Max
Fe <sub>2</sub> O <sub>3</sub>	0.40% Max
Al <sub>2</sub> O <sub>3</sub>	0.25% Min
Moisture	NIL
Size	0 - 6 MM Grains with 200 Mesh Powder

## RMX ULTIMATE

RMX Ultimate is made of RMX Alpha mixed with Boron Compounds B<sub>2</sub>O<sub>3</sub>. High-quality Boron Compounds are mixed in calculated ratio within controlled parameters to provide superior performance.

Brand name	RMX Ultimate (Silica Ramming Mass with Boron Compound - Pre Mix)
Base Raw Material	Quartzite
SiO <sub>2</sub>	98% ++
B <sub>2</sub> O <sub>3</sub>	0.40 - 0.80%
CaO	0.07% Max
Fe <sub>2</sub> O <sub>3</sub>	0.40% Max
Al <sub>2</sub> O <sub>3</sub>	0.25% Min
Moisture	NIL
Size	0 - 6 MM Grains with 200 Mesh Powder



### Long Furnace Life

- 3-Layer Magnetic Check
- Testing Every Single Production Batch



### Energy Efficient Production

- >1820°C Service Temperature
- Custom Blend for Each Order Increases Lining Life



### Reduced Operational Cost

- Controlled Quality from Mining to Packaging
- Increased Production within the Same Capacity
- High Heat Tolerance Reduces Patching Cost



### Decreased Down Time

- Easy Installation
- Superior Heat Cycles Reduce Down - Time



### Custom Packaging

- 50 Kg Standard Bag / 1+ Ton Jumbo Bag
- Six Months of Shelf Life

## Our Company

**Mechxport – Your One-Stop Sourcing Partner.**

**Mechxport** is the strategic brainchild of **The Steefo Group**, established to offer comprehensive sourcing solutions for capital equipment, spares, and consumables.

With **Quality, Safety, A Strong Global Supply Network, and Cost Optimization** at its core, Mechxport is driven by a commitment to excellence in every solution we deliver.

Backed by over **45 years of experience** in Steel and Pump industry, we bring deep-rooted engineering expertise, precision products, and responsive service to our customers worldwide. Our goal is clear – to ensure our valued clients are always in the right place, with the right solutions.

We proudly carry forward **The Steefo Group's legacy of ease of doing business**, making sourcing seamless, reliable, and efficient.

At Mechxport, the customer is at the center of everything we do.

**We Deliver Value. We Earn Trust.**



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