

The driving force of the refractory industry

Company presentation





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RHI Magnesita overview

Strategy





Refractories are essential for our modern world





1 tonne of STEEL demands ~10-15 kg of refractories



1 tonne of CEMENT demands ~1 kg of refractories



1 tonne of GLASS demands ~4 kg of refractories



1 tonne of ALUMINIUM demands ~6 kg of refractories



1 tonne of COPPER demands ~3 kg of refractories



Refractories are critical to all high-temperature industrial processes

- Refractories are critical consumable or investment goods for hightemperature manufacturing processes
- Fireproof materials consumed whilst protecting clients' production processes, retaining physical and chemical characteristics when exposed to extreme conditions
- Critical, yet represent less than 3% of COGS in steel manufacturing and less than 1% in other applications

Main end markets €20 billion worldwide industry Steel Energy, chemicals Nonferrous metals Cement Glass



60%

Global refractory industry

Source: Company estimates

- RHI Magnesita
- 4-6 segment companies
- 10-20 regional companies
- 100-200 small local companies
- 1000+ Chinese companies

Source: Company estimates of market share in US\$

Refractories are continuously consumed during finished goods production





A complex range of tailored refractory products





Example of refractory application for steel ladle





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We are the world leader in refractories and a truly global company



€2.6bn

2021 revenue



Employees

€63m

Annual investment in R&D and Technical Marketing

28

Main production sites

125+

Countries shipped to worldwide

Full Year 2021 – Financial highlights

Inventory levels and net debt increased to ensure customer deliveries



Revenue¹	Adjusted EBITA ¹	Adjusted EBITA margin	Adjusted Earnings per share
€2.6bn	€280m		€4.52ps
16%	1 9%	➡ (70)bps	1 38%
Cash returned to shareholders	Capex	Working Capital intensity ³	Net debt to adjusted EBITDA ⁴
€167m	€252m	23.3%	2.6x
↑ 315%		740bps	1.1x

1. Denoted on a constant currency basis

2. Operating cash flow comprises Adjusted EBITA, plus changes in working capital and other assets/liabilities, plus depreciation and minus capex

3. Working capital includes working capital financing, €2,911m and is denoted on a L3M revenue basis. Compared against FY20

4. Including IFRS 16 Leases of €56m

The refractory world of RHI Magnesita

Value creation from the raw material to the refractory product





Serving a blue chip client base





Note: 1) Approximate number of plants worldwide, excluding China, based on Company estimates



Experienced management team with solid financial and strategic background

Executive Management Team	Joined	Background
Stefan Borgas CEO	2016	 Former CEO of Israel Chemicals Ltd and Lonza Group Several management positions at BASF
lan Botha CFO	2019	 Former Finance Director of Anglo American Platinum Several management positions at Anglo American plc, including CFO Ferrous Metals, CFO Coal and Group Financial Controller
Luis R. Bittencourt CTO	1989	 Former Vice President R&D and Raw Materials at Magnesita BA in mining engineering (UFMG), MS degree in metallurgical engineering (University of Utah) and PhD in ceramic engineering (University of Missouri)
Rajah Jayendran COO	2021	 Former Senior Vice President Performance Management at Linde Group Holds an engineering degree from the Ruhr University Bochum
Gustavo Franco CSO	2019	 Former Global Sales & Marketing VP at RHI Magnesita 18 years of experience in Sales for the Refractory Industry, being based in South America, North America and Europe
Simone Oremovic People, Projects & Global Supply Chain	2017	 19 years of experience in leadership positions in HR, among other fields at GE, Telekom Austria, IBM and Shire/Baxter
Ticiana Kobel Legal, Corporate Communications & Purchasing	2019	 More than 20 years of experience in management positions in a wide range of global business branches such as the aviation industry, the technology industry, the service sector and the engineering industry



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Our strategic framework





Competitiveness Execute cost reductions

Cost-competitive global producer of technologically advanced refractory materials with safe production network and a focus on sustainable value generation.



Markets Drive market leadership

RHI Magnesita has a worldwide presence with strong local organisations and solid positions in all major markets.



Business model Enhance business model

The leading service and solutions provider in the refractory industry, with an extensive portfolio based on innovative technologies and digitalisation – the building blocks for a strong and sustainable future.



People and Culture The driving force of our strategy

Our skilled, motivated people, our customer-centric culture and our strong stakeholder partnerships are critical to RHI Magnesita's long-term success.

Our strategic difference



Largest global footprint Benefiting from scale and proximity to customers Backward integration Technical and financial advantage **Technical leadership** +540 experts across 90 countries

Full suite of products & services

Delivering more than refractory materials to address customers' needs

Low-cost operator

Underpinning profitable growth

Solutions offerings

Long-term client partnerships to drive efficiencies

Underpinned by the strength of our people and culture and our commitment to a sustainable business model

Strategy

Full suite of products complemented by knowledge and services







Strategy

Offering full solutions to drive value at customers

>20% of revenue comes from cost per performance contracts

Client cost structure



Client benefit

- ✓ Reduced downtime
- ✓ Lower refractory consumption
- ✓ Lower energy and other raw materials consumption
- ✓ Higher productivity

RHI Magnesita benefit

- ✓ Higher market share
- ✓ Higher client retention
- ✓ Lower competition
- ✓ Longer contracts

Current solutions portfolio

RHI MAGNESITA

127 solutions contracts worldwide

Expanding our solutions offering

Innovation to further enhance business model





Drive percentage of sales from solutions from 27% in 2020 to 40% by 2025 and improve Group margin

R&D – From raw materials to refractories



+540 technical experts across

90 countries

to consult, develop and deliver innovative solutions directly to our customers





2 R&D Hubs (Austria and Brazil)



3 R&D Centers (USA, China, India)



+540 Experts¹



+1,550 Active patents



2.5% R&D and Technical Marketing expenditure as % of sales¹



16% Revenue from new products² as % of total revenue

Notes: 1) R&D, Product Management and Technical Excellence & Solutions; 2) Defined as products and brands less than 3 years old

High quality sites globally

Supporting unique solutions to the market

Raw material	Production sites	Annual production
Standard DBM ¹ 90%-97%	Brumado (Brazil) Eskisehir (Turkey) Hochfilzen (Austria) Breitenau (Austria)	~720 k tonnes
High purity DBM¹ 97%+	Brumado (Brazil)	~240 k tonnes
Fused Magnesia	Contagem (Brazil)	~17 k tonnes
Other sintered or fused materials	Radenthein (Austria) Contagem (Brazil)	~80 k tonnes
DBD ²	York (USA) Chizhou (China) Hochfilzen (Austria)	~380 k tonnes



1.5 million tonnes of raw materials produced per year



70%

backward integration in basic raw materials and 50% for all raw materials/products ingredients

Notes: 1) DBM, Dead burned magnesia 2) DBD, Dead burned dolomite



Refractory margin

Strategic initiatives will drive further growth in refractory and backward integration margins





Resilient business model with a clear strategy





Resilient margins with further potential in refractories



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Strong cash conversion and robust balance sheet

Strong competitive position

- Stable refractory margin at 7.8% in 2021
- Adjusted EBITA margin contribution from backward integration in 2021 at 3.2%
- Strong cash flow generation and significant liquidity
- Capital flexibility to pursue both growth and shareholder returns
- Market leader with a global footprint and a "local for local" strategy 15% global market share (30% ex-China). Clear market leadership in Americas, Europe and Middle East
- Innovation leadership, with opportunity to develop technology and digital solutions across regions and portfolio
- Low cost, high quality vertical integration providing security of supply and unique solutions for the market, alongside high return on assets



Growth opportunity from new markets, solutions offering and M&A

- Opportunity to grow materially in under-represented markets such as India and China
- Greater penetration of value-added solutions offering to customers, improving refractory margins and retention
- Opportunity for further consolidation through M&A

Our 2025 Sustainability targets





CO₂ emissions Reduce by 15% per tonne¹



Energy Reduce by 5% per tonne



Recycling

Increase use of secondary raw materials to 10%



Diversity

Increase women on our Board and in senior leadership to 33%



Safety

Strong safety culture with goal of zero accidents



NOx and SOx emissions

Reduce by 30%² (achieved in China already)

Strategy

Sustainability leadership: €50 million R&D investment in CO₂ reduction technologies

Creating the path to de-carbonisation

- Capture of geogenic CO₂ emissions (>50% of our emissions)
- Utilisation of captured CO₂ through external partnerships
- R&D supporting switch away from fossil fuels in own operations

We aim to have the technology solution by 2025 which will create the path for a full de-carbonization of the company

Significant further opportunity to develop customer solutions to minimise energy consumption and emissions



Culture

Critical to future growth







Get in touch

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