



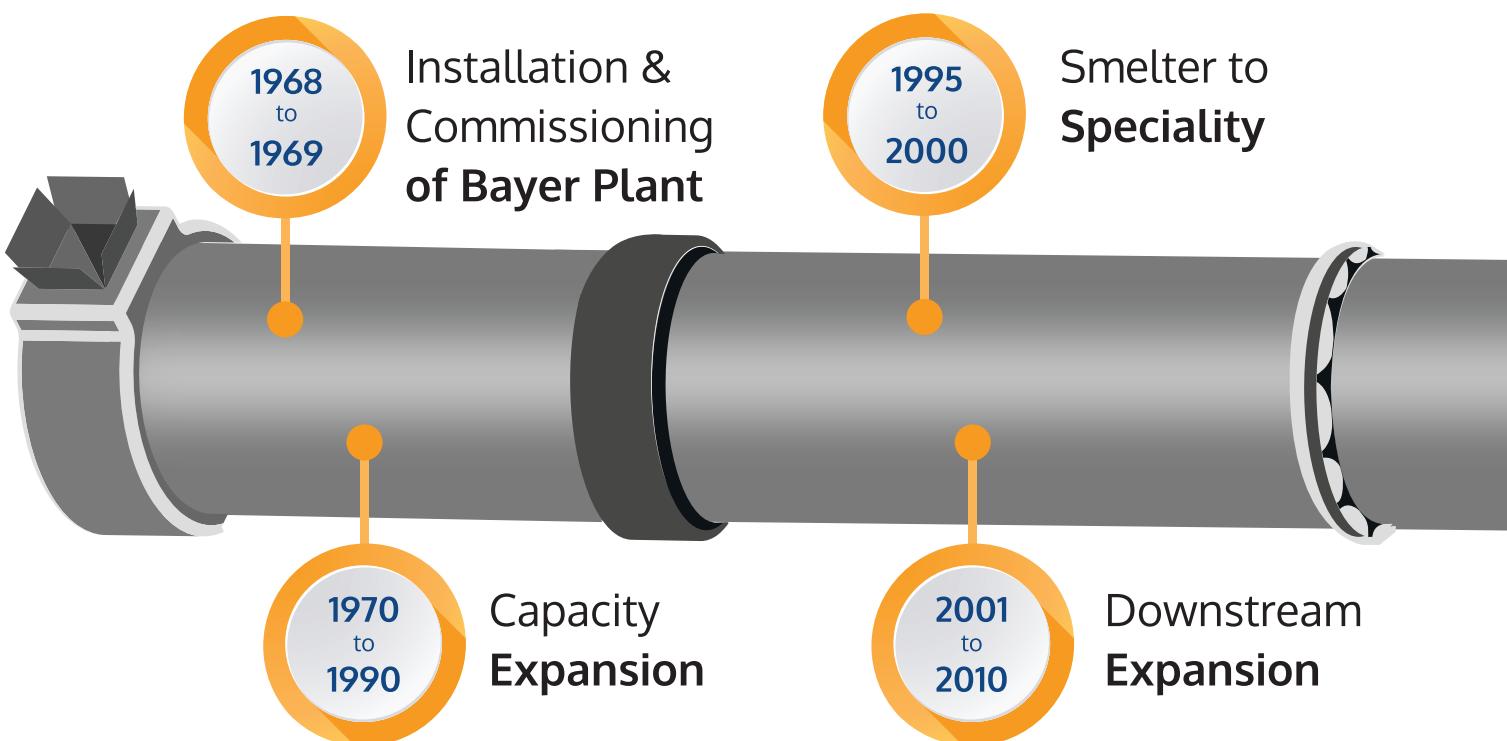
# Hindalco Alumina Essential Ceramics



The Specialty Alumina Business of Hindalco Industries Limited, the Metals flagship company of the USD 65 billion Aditya Birla Group, has been serving the Alumina and Hydrate needs for Advanced Ceramics, Refractories, Water Treatment Chemicals, Flame Retardants, Polishing, and many diverse industries for over five decades.

Headquartered in India, the Aditya Birla Group has a diversified business portfolio and presence across 14 industry sectors. Hindalco Industries Limited is the metals flagship company of the group and the industry leader in Aluminium, Copper and Specialty Alumina manufacturing. It is a fully integrated manufacturer with a global presence, operating [47 manufacturing sites across Europe, America and Asia](#).

Our R&D facility, Hindalco Innovation Centre for Alumina (HIC-A), is recognized by the Government of India and accredited by the National Accreditation Board for Testing and Calibration Laboratories (NABL). HIC-A has developed a multitude of technologies and products to address a wide range of customer requirements.



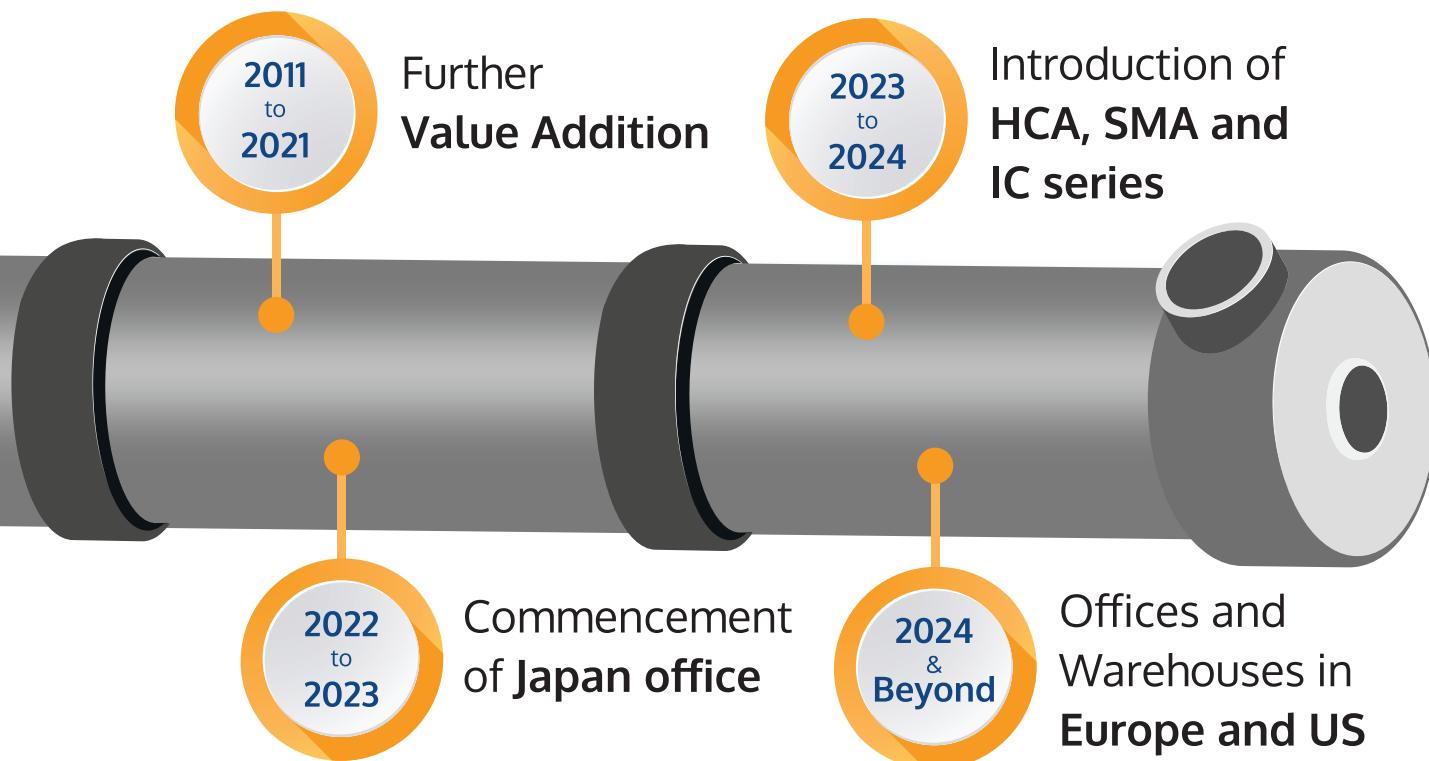
With a keen awareness of market dynamics, we have strategically evolved our supply chain to align with customer demands. New warehouses have been strategically added in key markets across North America, Europe, and Asia. Recognizing the pivotal role that **Japan, Europe, and the US** will play in our forthcoming growth phase. We have established **regional hubs and sales offices** in these areas to strengthen our customer connections.

Pioneering sustainability in the Alumina Industry, Hindalco has been successful in repurposing all the bauxite residue generated from our Alumina manufacturing operations. Hindalco is the world's first company to achieve 100 percent Red Mud utilization across three of its refineries. Consequently, we have been rated as "**The World's Most Sustainable Aluminium Company**" consecutively for the last 3 years by the Dow Jones Sustainability Indices.

We believe our commitment to a strong partnership focused on excellence, innovation, and sustainability brings forward novel solutions reimaging the world of Alumina to **make the world Greener, Stronger and Smarter**.



**ecovadis**  
Business Sustainability Ratings



# Glass & Fibre

SA, DH, DHM15



B, SRM30, HTM30

A, SA, BWG



DHM15, DH, A, SA

## Coarse Alumina/Hydrate

Attributes	A	B	C	DH
$\text{Al}_2\text{O}_3$ , %	99.4	99.6	99.5	65.2
$\text{Na}_2\text{O}$ , %	0.27	0.35	0.35	0.2
$\text{Fe}_2\text{O}_3$ , %	0.018	0.02	0.02	0.015
$\text{SiO}_2$ , %	0.01	0.02	0.02	0.015
SSA, $\text{m}^2/\text{g}$	60-70	0.7	0.7	-

## Key Properties

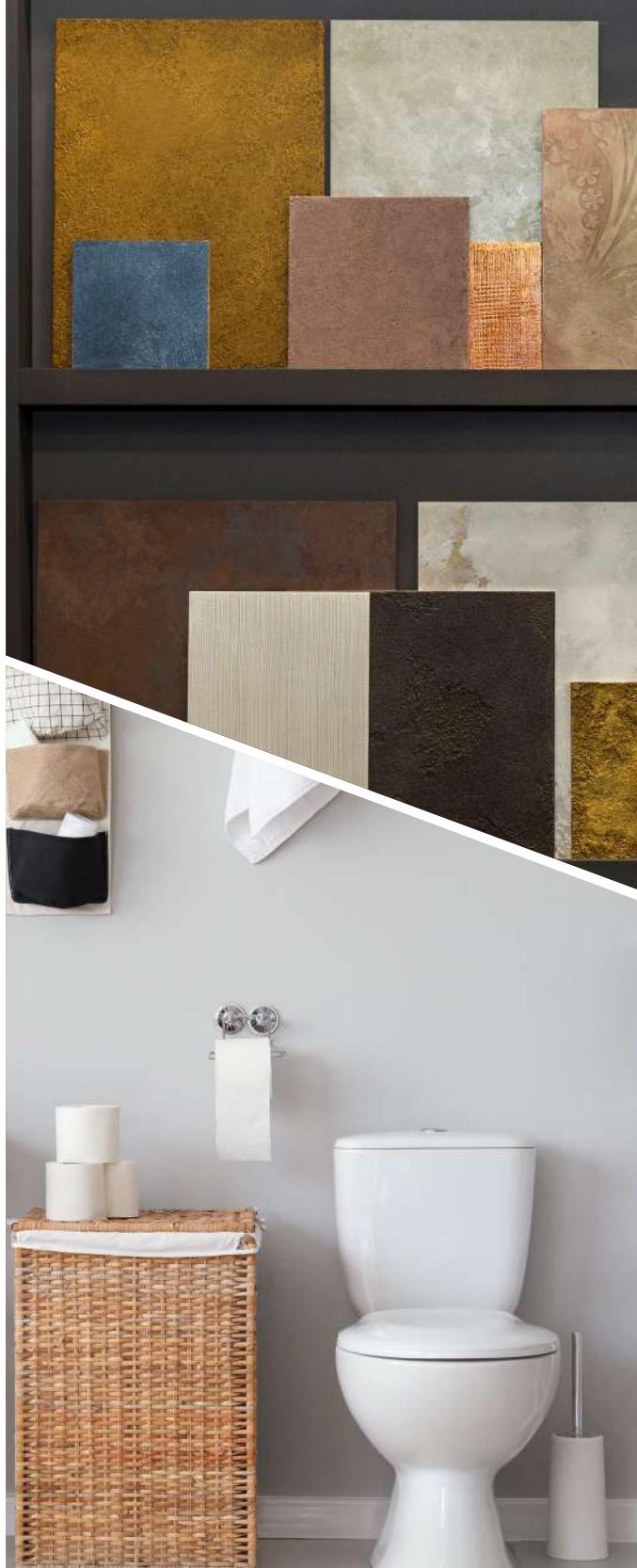
- Degree of crystallinity ( 80 - 99% )
- Alumina Purity (99.4-99.85%)
- High Thermal stability
- High Transparency
- Chemically Inert

## Fine Ground Alumina/Hydrate

Attributes	SRM30	HTM30	DHM15	RPF18	RPF18
$\text{Al}_2\text{O}_3$ , %	99.6	99.6	65.2	65.2	65.2
$\text{Na}_2\text{O}$ , %	0.35	0.30	0.025	0.2	0.2
$\text{Fe}_2\text{O}_3$ , %	0.02	0.025	0.015	0.015	0.015
$\text{SiO}_2$ , %	0.02	0.02	0.015	0.015	0.015
$D_{50}, \mu\text{m}$	4.5	3.5	15	40 -70	8

# Tiles

SA, SRM30



SA, SRM30

DH, SRM30



MRB10, SMA5

## Coarse Alumina

Attributes	SA	HT	G	IC30
$\text{Al}_2\text{O}_3$ , %	99.5	99.6	99.5	99.6
$\text{Na}_2\text{O}$ , %	0.30	0.3	0.35	0.25
$\text{Fe}_2\text{O}_3$ , %	0.02	0.02	0.02	0.02
$\text{SiO}_2$ , %	0.01	0.02	0.02	0.02
SSA, $\text{m}^2/\text{g}$	45	0.8	15	3.5

## Key Properties

- Degree of crystallinity ( 80 - 99% )
- Alumina Purity ( 99.5 - 99.85% }
- Particle shape ( Spherical, equiaxed & platelets )
- High Density Ceramics ( 3.7 - 3.9 g/cc )
- High structural stability
- High Hardness and high wear resistance

## Ground & Reactive Alumina

Attributes	SRM30	SRN70	AE305CB	MRB10	SMA5
$\text{Al}_2\text{O}_3$ , %	99.6	99.6	99.6	99.7	99.8
$\text{Na}_2\text{O}$ , %	0.35	0.35	0.25	0.06	0.08
$\text{Fe}_2\text{O}_3$ , %	0.02	0.02	0.02	0.03	0.02
$\text{SiO}_2$ , %	0.02	0.02	0.03	0.1	0.04
$D_{50}, \mu\text{m}$	4.5	7	4.2	2	0.7

# Insulators

HT, HTM30



B, GMU35



HCA3SG, HCA4FG

HCA4



## Coarse Alumina

Attributes	HT	HCA4	GMU35	GRLS
Al <sub>2</sub> O <sub>3</sub> , %	99.6	99.8	99.6	99.8
Na <sub>2</sub> O, %	0.3	0.08	0.03	0.1
Fe <sub>2</sub> O <sub>3</sub> , %	0.02	0.02	0.015	0.02
SiO <sub>2</sub> , %	0.02	0.03	0.015	0.07
SSA, m <sup>2</sup> /g	0.8	0.5	0.8	4

## Key Properties

- Degree of crystallinity ( 80 - 99% )
- Alumina Purity ( 99.6 - 99.85% }
- Particle shape ( Spherical, equiaxed & platelets )
- High structural stability
- High dielectric strength
- High volume resistivity

## Ground & Reactive Alumina

Attributes	HTM30	SRN70	AE304CB	HCA3SG	HCA4FG
Al <sub>2</sub> O <sub>3</sub> , %	99.6	99.6	99.6	99.8	99.8
Na <sub>2</sub> O, %	0.3	0.35	0.25	0.1	0.08
Fe <sub>2</sub> O <sub>3</sub> , %	0.025	0.02	0.02	0.02	0.02
SiO <sub>2</sub> , %	0.02	0.02	0.03	0.04	0.04
D50,µm	3.5	7	3.7	3.5	4.5

## Customer Service with...



Customized Products



Customized Packing



On Time in Full (OTIF) Delivery



Wide Distribution Network



Application Support

Creating a  
circular economy to build a  
**#GreenerStrongerSmarter**  
and a sustainable future!



## Our Global Reach



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