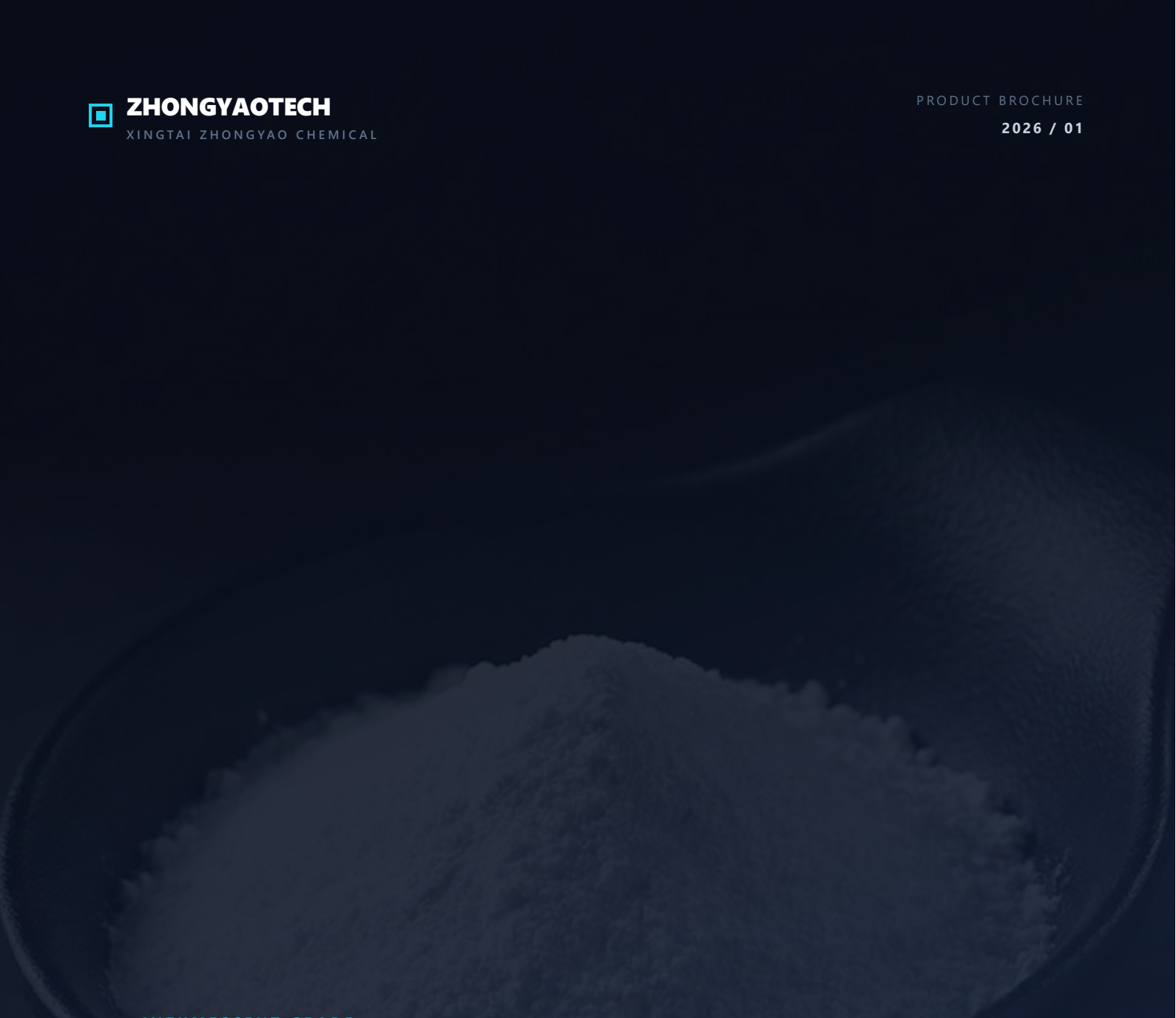
ZHONGYAOTECH
XINGTAI ZHONGYAO CHEMICAL

PRODUCT BROCHURE
2026 / 01



INTUMESCENT GRADE

MDH for Fireproof Coatings.

Fine-milled magnesium hydroxide for intumescent systems — promotes char formation and holds the thermal barrier together.

$Mg(OH)_2$	FINENESS	WHITENESS	OIL ABS.
≥ 96 %	1250 mesh	≥ 95 %	Medium

专用氢氧化镁

A coating buys time. Char structure is what decides **how much time**.

1250 mesh

FINENESS

Smooth film and stable suspension in the can.

≥95%

WHITENESS

Colour control for topcoat systems.

200–400 µm

DRY FILM

Typical thickness for a 60–90 min rating.

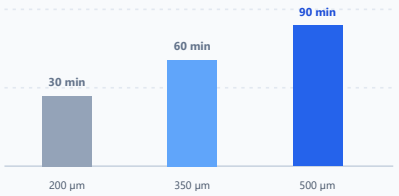
01 — MECHANISM

Helping the char stay in place.

Intumescent coatings work by expanding into a carbonaceous foam that insulates the steel beneath. The foam has to survive the fire, not just form.

Fine magnesium hydroxide reinforces that structure and releases water at the right moment, cooling the substrate while the char develops.

Compare. Particle size controls both film smoothness and the suspension stability of the coating in storage.



INDICATIVE, STEEL SECTION — NOT A CERTIFICATION

PROCESS

Processing → Ignition → Char

Fire rating vs thickness — Indicative, steel section — not a certification

FINENESS
1250 mesh
vs 325 mesh

FILM SMOOTHNESS
High
vs Low

SUSPENSION
Stable
vs Settles

02 — SPECIFICATION

Controlled batch to batch.

Parameter	Standard value	Method
Mg(OH)2 Content	**≥ 96.0%**	Batch COA
Fineness	**1250 mesh**	Batch COA
Oil Absorption	**Medium**	Batch COA
Whiteness	**≥ 95%**	Batch COA

Not a certification

Fire ratings are established by accredited test houses on the complete coating system. We supply the filler, not the rating.

SUPPLY

Packaging	**25 / 1 000 kg**
Minimum order	**1 t**
Lead time	**3–7 days**
Grade code	**MDH-Coatings**

CAS 1309-42-8 · Batch COA with every shipment. TDS and SDS on request.

INCOMING

Ore assay

Every lot screened for Fe, Ca, Si before calcination.

IN PROCESS

Activity + LOI

Sampled during production against the batch target.

BEFORE SHIPMENT

Full COA

Complete release testing, third-party reports on request.

03 — APPLICATIONS

Where it is specified.



01

Steel structures

Intumescent systems



02

Building materials

Fire barrier boards



03

Transport interiors

EN 45545 systems



04

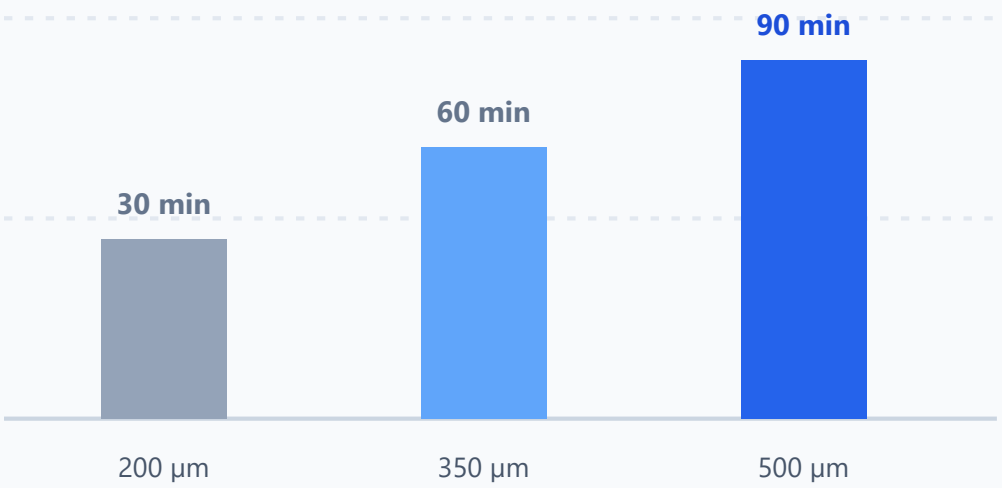
Custom milling

1250–3000 mesh

Dosage and loading figures are starting points for formulation trials. Final performance depends on the complete compound and test conditions.

04 — PERFORMANCE

Loading against performance.



INDICATIVE, STEEL SECTION — NOT A CERTIFICATION

Property	This grade	Coarse MDH
Fineness	**1250 mesh**	325 mesh
Film smoothness	**High**	Low
Suspension	**Stable**	Settles
Use	**Coatings**	Bulk compounds

PACKAGING

25 kg PE-lined PP woven bag, palletised on request.

1 000 kg jumbo bag for bulk compounding lines.

LOGISTICS

20' FCL load	**20–24 t**
Port of loading	**Tianjin / Qingdao**
Incoterms	**FOB / CIF / CFR**
HS code	**2519.90**

05 — SUPPLY

Batch traceable. Documented every time.

Every shipment carries a batch-specific COA. TDS, SDS and REACH statements are issued on request. Production is ISO 9001:2015 certified.

50,000 t
ANNUAL CAPACITY

50+
EXPORT COUNTRIES

1 t
MINIMUM ORDER

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Specifications are typical values and do not constitute a batch release certificate. Confirm acceptance criteria against the batch COA and the TDS in force at the time of order.

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