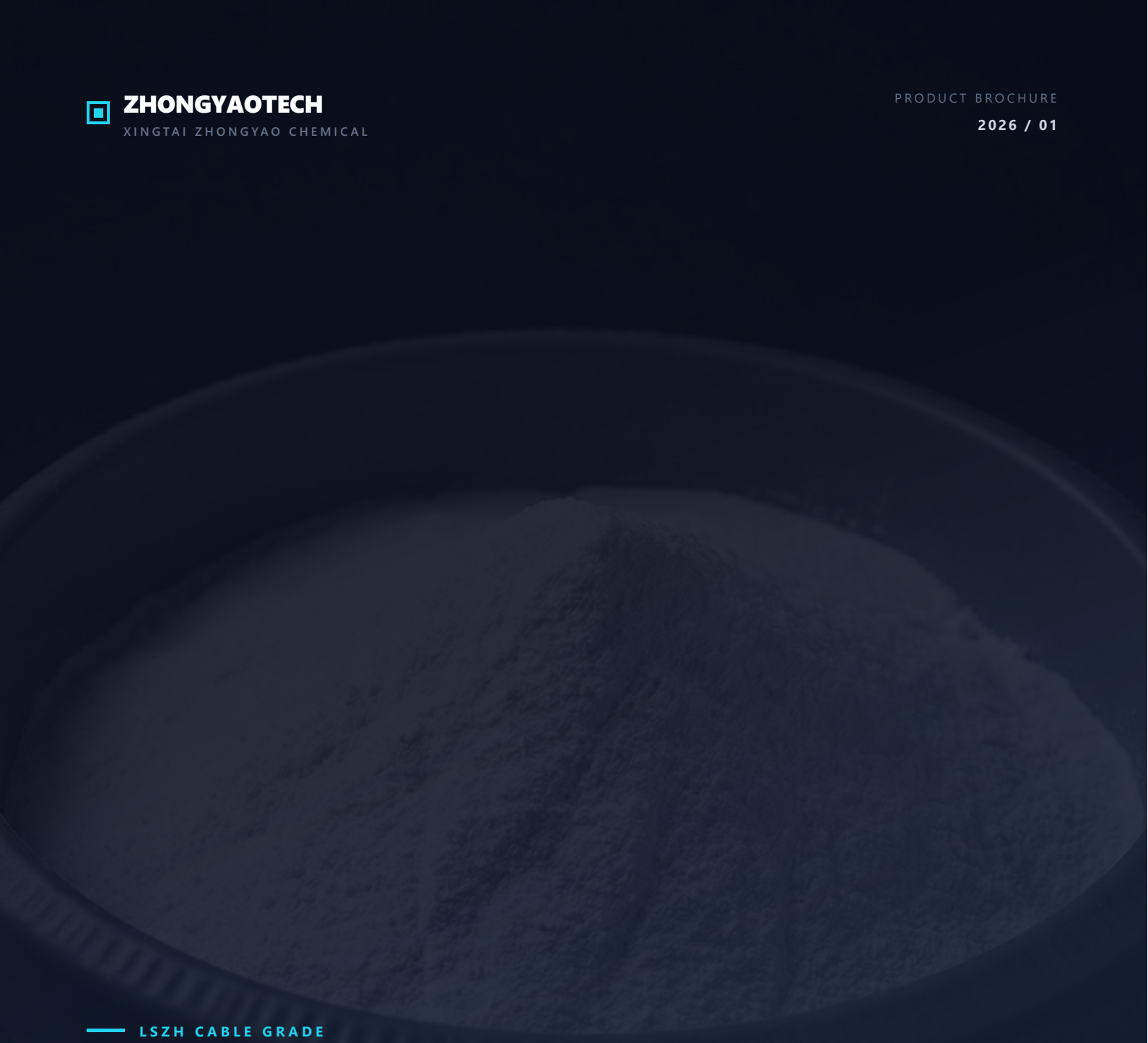
ZHONGYAOTECH
XINGTAI ZHONGYAO CHEMICAL

PRODUCT BROCHURE
2026 / 01



LSZH CABLE GRADE

MDH for LSZH Cables.

99.8 % magnesium hydroxide with controlled soluble sodium — low conductivity in the jacket, low smoke in the fire.

$Mg(OH)_2$	Na^+	D50	LOADING
≥ 99.8 %	≤ 0.01 %	1.2 µm	60–65 %

In an LSZH jacket,
a few ppm of sodium
is the difference between
conduction and insulation.

≤0.01%

SOLUBLE SODIUM

Ionic conductivity in humid service conditions.

1.2 µm

D50

Uniform dispersion in thin jacket walls.

<100

SMOKE DENSITY

DSR, against more than 400 for halogenated systems.

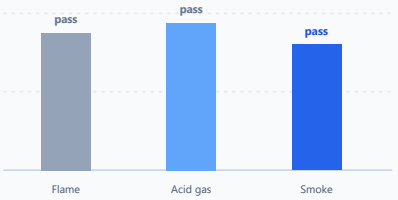
01 — MECHANISM

Built for the IEC test envelope.

Low-smoke zero-halogen cable must pass flame propagation, acid gas and smoke density tests simultaneously. Each of those pushes the filler system in a different direction.

The soluble sodium content decides whether the compound stays insulating after humidity cycling — which is why it is specified separately from purity.

Compare. IEC 60332-1-2 for flame, IEC 60754 for acid gas, IEC 61034 for smoke — the same three tests your customer will run.



TYPICAL RESULT AGAINST THE IEC LIMIT — INDICATIVE

PROCESS



Processing → Ignition → Char

Test margin — Typical result against the IEC limit — indicative

$MG(OH)_2$	SOLUBLE NA	D50
≥ 99.8 %	**≤ 0.01 %**	**1.2 µm**
vs ≥ 99.0 %	vs Not specified	vs 1.5–2.0 µm

02 — SPECIFICATION

Controlled batch to batch.

Parameter	Standard value	Method
Mg(OH)2 Content	**≥ 99.8%**	Batch COA
Soluble Sodium	**≤ 0.01%**	Batch COA
Electrical Conductivity	**Low**	Batch COA
D50	**1.2 µm**	Batch COA

Documentation

Batch COA with soluble sodium and conductivity. We can support customer trials with graded samples across the D50 range.

SUPPLY

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

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.

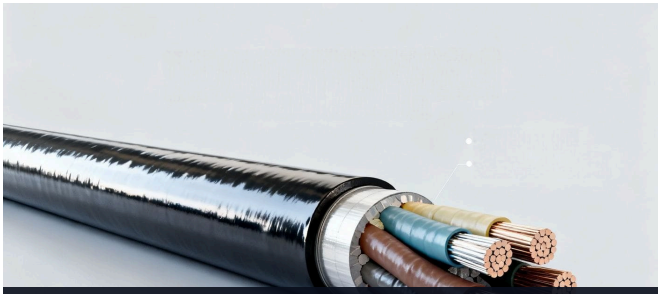
BEFORE SHIPMENT

Full COA

Complete release testing, third-party reports on request.

03 — APPLICATIONS

Where it is specified.



01

Power cable jacket

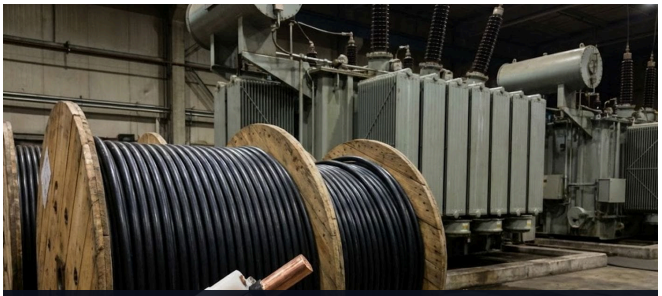
IEC 60332 and 61034



02

Data cable

Low dielectric loss



03

Rail and marine

EN 45545 and low smoke



04

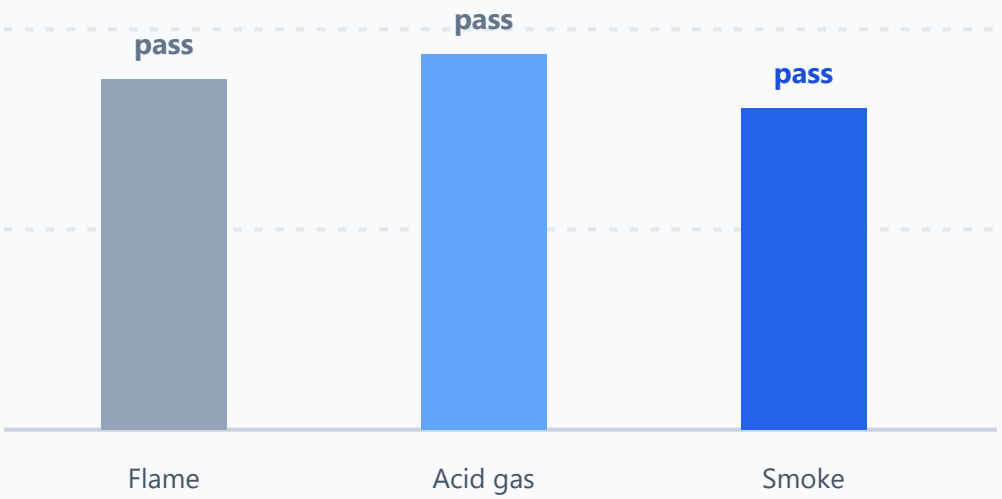
Compounding support

Dispersion advice

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.



TYPICAL RESULT AGAINST THE IEC LIMIT — INDICATIVE

Property	This grade	Standard MDH
$Mg(OH)_2$	**≥ 99.8 %**	≥ 99.0 %
Soluble Na	**≤ 0.01 %**	Not specified
D50	**1.2 µm**	1.5–2.0 µm
Use	**LSZH jacket**	General FR

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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WEBSITE
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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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