ZHONGYAOTECH
XINGTAI ZHONGYAO CHEMICAL

PRODUCT BROCHURE
2026 / 01

CABLE COMPOUND GRADE

MgO for Rubber Cables.

Dielectric strength above 20 kV/mm and 5 000 h UV ageing resistance for mining, marine and industrial rubber-sheathed cable.

MGO	KV/MM	UV	D50
≥ 96 %	> 20	5 000 h	2–4 µm

A cable jacket fails where the filler **did not bond**. Surface chemistry decides **the dielectric life**.

>20 kV/mm

DIELECTRIC STRENGTH

Measured on CSM and EPDM jackets at working loading.

5 000 h

UV AGEING

Accelerated weathering without surface cracking.

<5%

OIL SWELL

Fuel C immersion, 168 h at 60 °C.

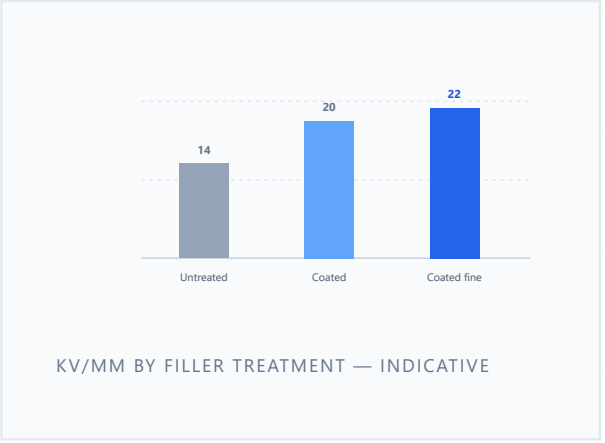
01 — MECHANISM

Insulation and acid acceptance at once.

In CSM and EPDM jackets the magnesia does two jobs: it neutralises the acid released during curing, and it contributes to the electrical insulation of the sheath.

Particle size decides which dominates. Finer grades disperse better and raise breakdown strength; coarser grades process faster at high loading.

Compare. For marine cable, specify the low-chloride grade — residual chloride accelerates water treeing.



KV/MM BY FILLER TREATMENT — INDICATIVE

PROCESS

Mixing → Cure → Service

Breakdown strength — kV/mm by filler treatment — indicative

DIELECTRIC STRENGTH
> 20 kV/mm
vs 12–16 kV/mm

UV AGEING
5 000 h
vs Not specified

SURFACE TREATMENT
Available
vs Usually none

02 — SPECIFICATION

Controlled batch to batch.

Parameter	Standard value	Method
MgO Content	**≥ 93.0%**	Batch COA
Specific Surface Area	**60-80 m^2/g**	Batch COA
Moisture	**≤ 0.8%**	Batch COA
Sieve Residue	**≤ 0.05%**	Batch COA

Compound support

Starting formulations for CR, CSM and EPDM jackets are available. Tell us the working voltage class and we will match the grade.

SUPPLY

Packaging	**25 / 1 000 kg**
Minimum order	**1 t**
Lead time	**3–7 days**
Grade code	**MgO-Rubber-Cables**

CAS 1309-48-4 · 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.

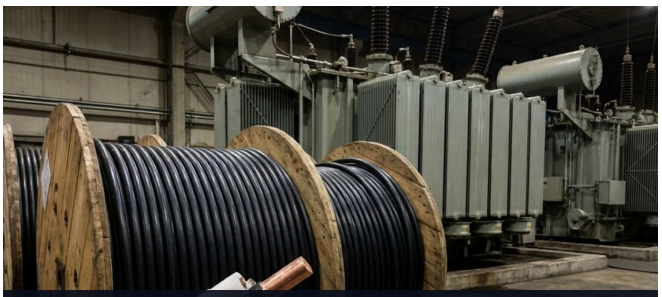
BEFORE SHIPMENT

Full COA

Complete release testing, third-party reports on request.

03 — APPLICATIONS

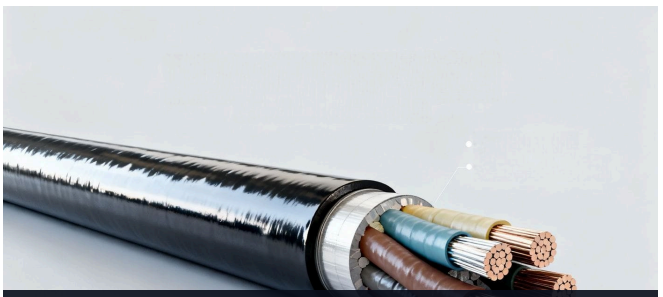
Where it is specified.



01

Mining cable

Abrasion and flame resistance



02

Marine cable

Low water absorption



03

Industrial cable

Dielectric strength



04

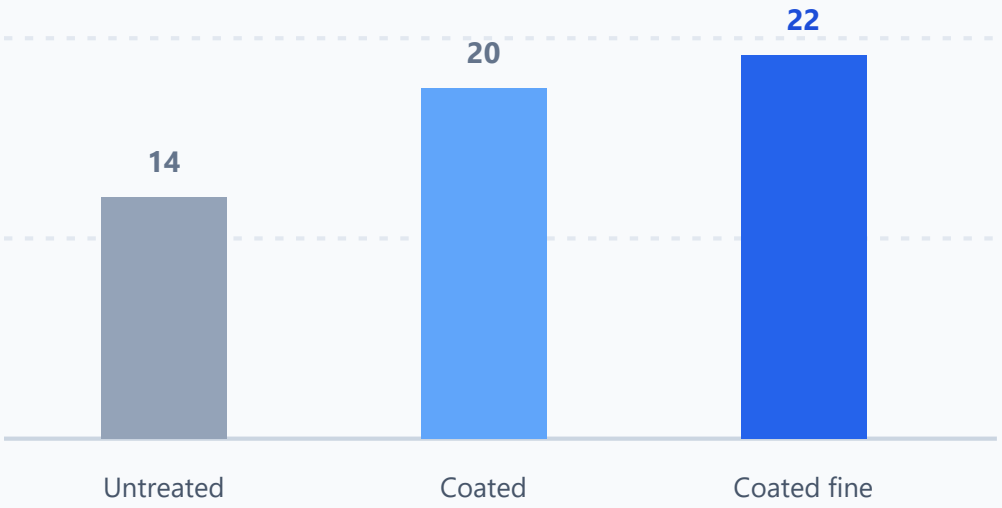
Rubber sheathing

Acid acceptance

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.



KV/MM BY FILLER TREATMENT — INDICATIVE

Property	This grade	Standard MgO
Dielectric strength	**> 20 kV/mm**	12–16 kV/mm
UV ageing	**5 000 h**	Not specified
Surface treatment	**Available**	Usually none
Use	**Cable jackets**	General rubber

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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