ZHONGYAOTECH
XINGTAI ZHONGYAO CHEMICAL

PRODUCT BROCHURE
2026 / 01



HIGH ACTIVITY GRADE

Active Magnesium Oxide.

Iodine value 120–180, engineered for chloroprene adhesives and rubber compounds where scorch control decides the yield.

IODINE	MGO	D50	CAS
120–180	≥ 95 %	1–3 μm	1309-48-4

Scorch is not a curing problem.
It is an **acid problem** —
and it is solved **before the press**.

120–180

IODINE VALUE

The activity window that keeps CR compound safe at 120 °C.

3–6 mo

SHELF LIFE GAIN

Acid acceptance extends storage from 2–3 to 6–9 months.

20–30%

FASTER CURE

Higher activity shortens press time without premature set.

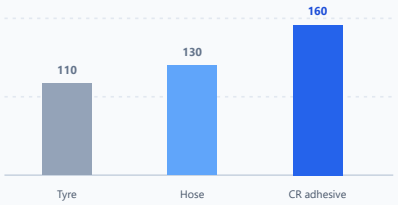
01 — MECHANISM

Activity is measured, not claimed.

Active magnesia is calcined at the lower end of the window and milled fine, giving a high surface area that reacts with the acid released during processing of halogenated rubber.

Two tests are used in the trade — iodine adsorption value and citric acid activity time. They are not interchangeable, so a specification should name the method.

Compare. Grades are matched to the compound: adhesive systems usually want the upper end of the window, tyre compounds the middle.



IODINE VALUE BY USE CASE — INDICATIVE

PROCESS

Mixing → Cure → Service

Activity vs application — Iodine value by use case — indicative

IODINE VALUE
120–180 mg/g
vs 40–80 mg/g

SURFACE AREA
High
vs Medium

MAIN USE
CR, CIIR compounds
vs General neutralisation

02 — SPECIFICATION

Controlled batch to batch.

Parameter	Standard value	Method
MgO Content	**≥ 95.0%**	Batch COA
Iodine Absorption	**≥ 120 mg/g**	Batch COA
Specific Surface Area	**140 m^2/g**	Batch COA
Screening Rate (325 mesh)	**≥ 99.9%**	Batch COA

Verification

Each batch is released against iodine value and citric acid activity. Ask for the method used in your own specification before comparing two suppliers.

SUPPLY

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

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

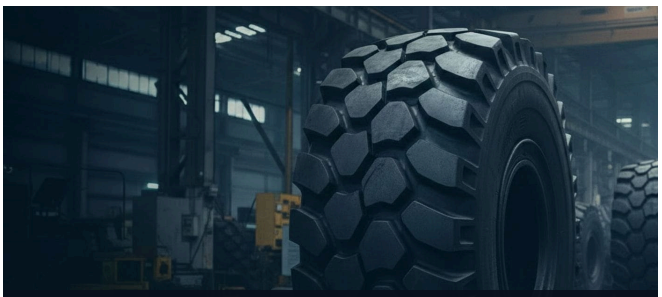
Sampled during production against the batch target.

BEFORE SHIPMENT

Full COA

Complete release testing, third-party reports on request.

Where it is specified.



01

Polychloroprene adhesive

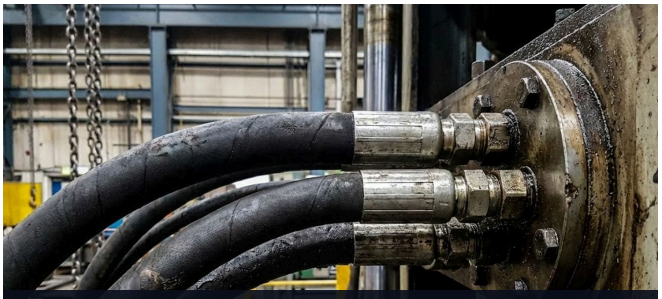
Scorch safety in solvent systems



02

Tyre compounds

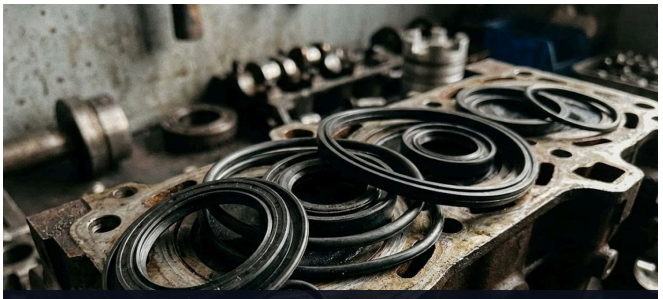
Acid acceptor and cure activator



03

Industrial hoses

Heat and oil resistance



04

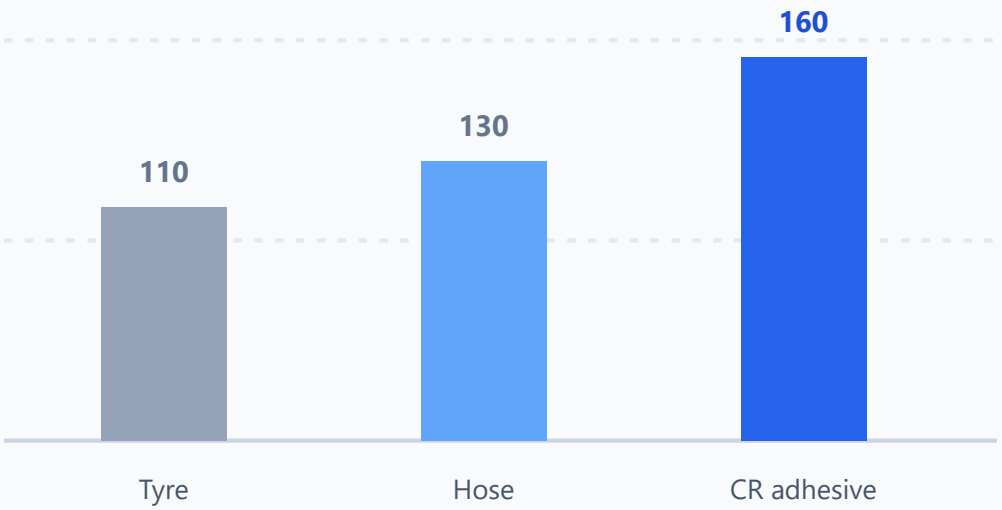
Seals and gaskets

Compression set control

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.



IODINE VALUE BY USE CASE — INDICATIVE

Property	Active MgO	Light MgO
Iodine value	**120–180 mg/g**	40–80 mg/g
Surface area	**High**	Medium
Main use	**CR, CIIR compounds**	General neutralisation
Price band	**Higher**	Lower

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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