

CHROMIC OXIDE (ACCROX R)

PROPERTIES: EEC No. 215-160-9

Chemical Formula: Cr₂O₃

Stability in Air: Completely Stable

CAS Number: 1308-38-9

Solubility in Water: Insoluble

Molecular Weight: 151.9

Appearance: Green Powder

Particle Shape: Spheroidal

Specific Gravity: 5.22

Avg. Particle Size:** 0.7 microns

Behavior on Heating: Completely Stable. Melt at 2435 °C (4415 °F)

Chemical Characteristics:

Inert except under very vigorous conditions. Reacts slowly in hot concentrated sulfuric acid. Oxidizes in hot perchloric acid. Also reacts with molten alkali at high temperatures, specifically under oxidizing conditions. Not readily reduced by hydrogen or carbon monoxide - high temperatures and pressures are required.

TYPICAL ANALYSIS: *

Chromium as Cr ₂ O ₃ ,%	99.5
Loss on Ignition at 750°C, %	0.7
Moisture at 110 °C, %	0.2
Water Soluble Salts	0.1
Retention on 45 micron (325 mesh) screen , %	0.05
Specific Surface Area, BET m ² /gm	5.0
pH	6.6

* Data represent normal production values and may be slightly higher or lower for actual production.

** Fisher Sub-Sieve Sizer Method

GENERAL APPLICATIONS:

The major use of Chromium Oxide Accrox R is in the refractory industry. Chromium Oxide is added to bricks, mortars, ramming mixes, gunning mixes, etc. to increase the life of refractory materials.

HEALTH AND SAFETY PRECAUTIONS:

Chromium Oxide may be regarded as essentially nontoxic. Excessive exposure, however, may cause irritation to the eyes, skin, or lungs. Appropriate precautions should be observed in handling to minimize skin contact and to maintain air concentrations below the TLV of 0.5 mg/m³ Cr. For detailed information, consult our Safety Data Sheet (SDS), which is available upon request.

STORAGE:

Indefinite shelf life when stored under conditions that prevent degradation of the packaging.

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CHROMIC ACID SOLUTION CLF (500)

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