

## VERDE OSSIDO CROMO IDRATO

### SCHEDA TECNICA

#### PROPERTIES

Chemical Formula:	Cr <sub>2</sub> O <sub>3</sub> .2H <sub>2</sub> O, B <sub>2</sub> O <sub>3</sub>
CAS Number:	12001-99-9
EEC No.:	215-160-9
Stability in Air:	Completely Stable
Solubility in Water:	Insoluble
Appearance:	Blue-green powder
Spwcfic Gravity:	approximately 3

#### 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. Decomposes losing water of hydration at temperatures above 200 degrees Celsius.

#### TYPICAL ANALYSIS

Chromium oxide, wt%	76
Boron as B <sub>2</sub> O <sub>3</sub> , wt%	5
Specific Surface Area, m <sup>2</sup> /g	135
+325 Mesh Retention, %	0.1
pH	8.0
Water Soluble Salts, %	1.5
Lead	<2.5 PPM
Arsenic	< 1 PPM
Mercury	< 0.1 PPM

Data: 30/07/2025