SMELTING-GRADE CHROME OXIDE GREEN

Cr_2O_3 · CAS 1308-38-9 · EC 215-160-9 · aluminothermic feedstock · metallurgical grade

IDENTIFICATION

Chemical name	**Chromium(III) oxide**	Formula	**Cr_2O_3**
CAS No.	**1308-38-9**	EC No.	**215-160-9**

TYPICAL SPECIFICATION

Cr_2O_3 content	**≥ 99.0 %**	Particle gradation	**Controlled (custom)**
Carbon	**Low**	Bulk density	**High (sintered)**
Silicon	**Low**	Moisture	**≤ 0.3 %**
Sulphur	**≤ 0.02 %**	Aluminium	**≤ 0.30 %**
Iron	**≤ 0.35 %**	Silica	**≤ 0.25 %**

PROCESS NOTES

$Cr_2O_3 + 2Al \rightarrow 2Cr + Al_2O_3$, ≈ −536 kJ/mol; adiabatic temperature ≈ 2400–2700 °C. Liquid chromium (6.3 g/cm³) settles below the alumina slag (2.7 g/cm³). The particle window is screened for a fast, complete reaction without charge dusting.

NOTE ON SCOPE

We supply the chromium oxide feedstock only — aluminium powder is not supplied and no pre-mixing service is offered.

PACKAGING & TRACEABILITY

25 kg bags · 1 t big bags. Lot-level CoA with C, S and Si data; blockchain QR per lot.