

CHROMIUM (III)OXIDE

Chromium(III) oxide (or chrome oxide) CAS Number 1308-38-9, Molar mass 151.99 g/mol ,Density :5.22 g/cm³ , Melting point:2,435 °C (4,415 °F; 2,708 K),Boiling point:4,000 °C (7,230 °F; 4,270 K). It is an inorganic compound with the formula Cr₂O₃. It is one of the principal oxides of chromium and is used as a Chromium Metal, refractory materials, Inorganic pigment and Grind material.

Metallurgical Grade

Extraction of Chromium Metal from Chromium (III)oxide using electrolysis or Alumino- Thermic Reduction;
Acts as a component in producing stainless steel and alloys to enhance corrosion resistance and hardness.

Metallurgical Grade

ITEMS	LIMITS	RESULTS
Cr ₂ O ₃ CONTENT%	≥99.00	99.63
MOISTURE%	≤0.20	0.03
WATER SOLUBLE MATTER%	≤0.50	0.11
HEXAVALENT CHROME (Cr6)	≤10PPM	1
PH	7-10	8.25
C	≤50PPM	32
S	≤20PPM	7
FE	≤50PPM	36

PARTICLE SIZE ANALYSIS BY BT-9300H SYSTEM

Sample Name:Metallurgical Grade	SampleOwner:SPRUCEX LLC
Medium Name:water	MeasureDept:SPRUCEX LLC
Operator:Jessica	Test Date:2024-04-15 Test Time:14:58:33
Remark:	

D50:5.11um	D[4, 3]:5.63um	D[3, 2]:3.87um	Obscuration:26.51	
SSA:573.46m^2/kg	Matter Index:2.520+0.10	Medium Index:1.333	Span:1.57	
D3:1.30um	D6:1.66um	D10:2.03um	D16:2.49um	D25:3.12um
D75:7.82um	D84:9.05um	D90:10.07um	D97:11.96um	D98:12.32um

Diam(um)	Diff%	Cumu%	Diam(um)	Diff%	Cumu%	Diam(um)	Diff%	Cumu%	Diam(um)	Diff%	Cumu%
0.10 - 0.11	0	0	0.76 - 0.85	0.26	0.45	5.85 - 6.51	6.22	63.79	44.69 - 49.74	0	100
0.11 - 0.12	0	0	0.85 - 0.95	0.39	0.84	6.51 - 7.24	6.48	70.27	49.74 - 55.36	0	100
0.12 - 0.14	0	0	0.95 - 1.05	0.53	1.37	7.24 - 8.06	6.64	76.91	55.36 - 61.62	0	100
0.14 - 0.15	0	0	1.05 - 1.17	0.71	2.08	8.06 - 8.97	6.57	83.48	61.62 - 68.58	0	100
0.15 - 0.17	0	0	1.17 - 1.31	0.9	2.98	8.97 - 9.98	6.09	89.57	68.58 - 76.33	0	100
0.17 - 0.19	0	0	1.31 - 1.45	1.14	4.12	9.98 - 11.11	5.08	94.65	76.33 - 84.96	0	100
0.19 - 0.21	0	0	1.45 - 1.62	1.43	5.55	11.11 - 12.37	3.46	98.11	84.96 - 94.56	0	100
0.21 - 0.24	0	0	1.62 - 1.80	1.81	7.36	12.37 - 13.77	1.57	99.68	94.56 - 105.24	0	100
0.24 - 0.26	0	0	1.80 - 2.00	2.29	9.65	13.77 - 15.32	0.32	100	105.24 - 117.13	0	100
0.26 - 0.29	0	0	2.00 - 2.23	2.83	12.48	15.32 - 17.05	0	100	117.13 - 130.37	0	100
0.29 - 0.32	0	0	2.23 - 2.48	3.39	15.87	17.05 - 18.98	0	100	130.37 - 145.10	0	100
0.32 - 0.36	0	0	2.48 - 2.76	3.93	19.8	18.98 - 21.12	0	100	145.10 - 161.50	0	100
0.36 - 0.40	0	0	2.76 - 3.08	4.44	24.24	21.12 - 23.51	0	100	161.50 - 179.75	0	100
0.40 - 0.45	0	0	3.08 - 3.42	4.9	29.14	23.51 - 26.17	0	100	179.75 - 200.06	0	100
0.45 - 0.50	0	0	3.42 - 3.81	5.26	34.4	26.17 - 29.12	0	100	200.06 - 222.66	0	100
0.50 - 0.55	0	0	3.81 - 4.24	5.56	39.96	29.12 - 32.41	0	100	222.66 - 247.83	0	100
0.55 - 0.62	0	0	4.24 - 4.72	5.73	45.69	32.41 - 36.08	0	100	247.83 - 275.83	0	100
0.62 - 0.69	0.05	0.05	4.72 - 5.25	5.86	51.55	36.08 - 40.15	0	100	275.83 - 307.00	0	100
0.69 - 0.76	0.14	0.19	5.25 - 5.85	6.02	57.57	40.15 - 44.69	0	100	307.00 - 341.69	0	100



