

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.

Pigments

Used as a green pigment in paints, coatings, and inks due to its stability, lightfastness, and non-toxic nature.
Commonly found in ceramics and glass to provide a rich green color.

Pigment Grade

ITEMS	LIMITS	RESULTS
Cr ₂ O ₃ CONTENT%	≥98.50	98.58
MOISTURE%	≤0.20	0.08
WATER SOLUBLE MATTER%	≤0.70	0.60
RESIDUE 325%	≤0.30	0.06
HEHA-CHROME CONTENT (Cr6)+PPM	0	0
PH	6-8	7.37

SHADE TEST						
STANDARD CODE: GN-1	D65	ΔL	Δa	Δb	ΔE	%
BATCH: 20241121	SHADE	+0.18	-0.10	-0.15	0.25	
	INTENSIT	-0.10	-0.06	+0.40	0.41	101.5

PARTICLE SIZE ANALYSIS BY BT-9300H SYSTEM

Sample Name:Pigment Grade	SampleOwner:SPRUCEX LLC
Medium Name:water	MeasureDept:SPRUCEX LLC
Operator:Jessica	Test Date:2024-11-21 Test Time:12:19:07
Remark:	

D50:1.76um	D[4, 3]:1.81um	D[3, 2]:1.18um	Obscuration:27.54
SSA:967.87m ² /kg	Matter Index:2.520+0.100i	Medium Index:1.333	Span:1.46
D0:100.00um	D0:100.00um	D0:100.00um	D0:100.00um
D0:100.00um	D0:100.00um	D0:100.00um	D0:100.00um

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	3.29	21.07	5.85 - 6.51	0	100	44.69 - 49.74	0	100
0.11 - 0.12	0.02	0.02	0.85 - 0.95	3.64	24.71	6.51 - 7.24	0	100	49.74 - 55.36	0	100
0.12 - 0.14	0.03	0.05	0.95 - 1.05	3.92	28.63	7.24 - 8.06	0	100	55.36 - 61.62	0	100
0.14 - 0.15	0.04	0.09	1.05 - 1.17	4	32.63	8.06 - 8.97	0	100	61.62 - 68.58	0	100
0.15 - 0.17	0.05	0.14	1.17 - 1.31	4.04	36.67	8.97 - 9.98	0	100	68.58 - 76.33	0	100
0.17 - 0.19	0.07	0.21	1.31 - 1.45	4.21	40.88	9.98 - 11.11	0	100	76.33 - 84.96	0	100
0.19 - 0.21	0.1	0.31	1.45 - 1.62	4.73	45.61	11.11 - 12.37	0	100	84.96 - 94.56	0	100
0.21 - 0.24	0.14	0.45	1.62 - 1.80	5.61	51.22	12.37 - 13.77	0	100	94.56 - 105.24	0	100
0.24 - 0.26	0.22	0.67	1.80 - 2.00	6.78	58	13.77 - 15.32	0	100	105.24 - 117.13	0	100
0.26 - 0.29	0.31	0.98	2.00 - 2.23	7.84	65.84	15.32 - 17.05	0	100	117.13 - 130.37	0	100
0.29 - 0.32	0.46	1.44	2.23 - 2.48	8.38	74.22	17.05 - 18.98	0	100	130.37 - 145.10	0	100
0.32 - 0.36	0.68	2.12	2.48 - 2.76	8	82.22	18.98 - 21.12	0	100	145.10 - 161.50	0	100
0.36 - 0.40	1	3.12	2.76 - 3.08	6.72	88.94	21.12 - 23.51	0	100	161.50 - 179.75	0	100
0.40 - 0.45	1.45	4.57	3.08 - 3.42	4.92	93.86	23.51 - 26.17	0	100	179.75 - 200.06	0	100
0.45 - 0.50	2.01	6.58	3.42 - 3.81	3.14	97	26.17 - 29.12	0	100	200.06 - 222.66	0	100
0.50 - 0.55	2.5	9.08	3.81 - 4.24	1.72	98.72	29.12 - 32.41	0	100	222.66 - 247.83	0	100
0.55 - 0.62	2.78	11.86	4.24 - 4.72	0.83	99.55	32.41 - 36.08	0	100	247.83 - 275.83	0	100
0.62 - 0.69	2.9	14.76	4.72 - 5.25	0.33	99.88	36.08 - 40.15	0	100	275.83 - 307.00	0	100
0.69 - 0.76	3.02	17.78	5.25 - 5.85	0.12	100	40.15 - 44.69	0	100	307.00 - 341.69	0	100



