



LAVINO DIVISION
 INTERNATIONAL MINERALS & CHEMICAL CORPORATION
 THREE PENN CENTER PLAZA • PHILADELPHIA, PENNSYLVANIA 19102

24

CHEMICAL AND PHYSICAL CHARACTERISTICS OF



PLASTIC "X-N" CHROME ORE

The test data shown are typical of the values obtained on material of current production and are not to be considered as guaranteed specifications.

CLASSIFICATION

Plastic Chrome Ore

RECOMMENDED APPLICATION

Open Hearth Door Linings, Runner Linings,
 Boilers (water-tubed sidewalls and bottoms),
 Kraft Recovery Furnace Bottoms

CY CAL ANALYSIS

MgO	10%
Cr ₂ O ₃	41
SiO ₂	7.5
Al ₂ O ₃	15
CaO	0.5
FeO	23
Ig. Loss	1

PHYSICAL PROPERTIES

Moisture Content - 6-8%

Bulk Density (Rammed)
 205-210 lbs./cu. ft.

PACKAGING

Steel Drums, 200 lbs. net	Bags, 100 lbs. net
Steel Drums, 100 lbs. net	Cardboard Cartons, 100 lbs. net

Bulletin No. 6-23-649
 Supersedes No. 6-23-351
 Issued October, 1971

Specification No. PG-478
(Supercades and Voids PGN-419)

Date Issued 5/5/72

PLASTIC K-N CHROME ORE

I. Composition (Chrome Ore sizings may be varied to meet screen test target)

28.0 pts Transvaal Chrome Ore, 3/8"x9M
28.0 pts Transvaal Chrome Ore, -9M x D
32.0 pts Transvaal Chrome Ore, FF (3.0% SiO₂ max.)
7.8 pts "U" Grade Sodium Silicate
2.6 pts Hamilton II Clay
1.0 pts Asbestos (Canadian standard 7M-90)
0.25 pts Varsene

Water as required to meet impact specifications.

II. Control Tests

A. Impact Value (At Pan)

33 ± 2 (31-35)

B. Screen Test

Thru 3/8"	100%
Total on 8 Mesh	26.0 ± 3% (23-29%)
Minus 200 Mesh	35.0 ± 3% (32-38%)

C. Chemical Analysis

Sodium Silicate	3.6% ± 0.2	(3.4-3.8)
Cr ₂ O ₃	40.0% ± 3	(37-43%)
SiO ₂	8.0% ± 1.5	(6.5-9.5%)
Moisture	7.5% ± 0.5	(7-8%)

III. Packaging

The finished product is packed in poly lined containers, 100# 5 ply paper bags, 100# cartons, and 200# steel drums.

Approved by:

Norman McHale 5/4/72 Technical Director
Robert L. ... 5/4/72 Production Director
L. R. ... 5/7/72 Marketing Director

ADDITIVE SPECIFICATION

Material: Asbestos Fibers-7M90
Source: W. R. Grace Co.
Specification No. : SA-1020
Supercedes No. :
Date:
For Use In : Plastic KN

COMPOSITION:

Hydrous magnesium silicate - Chrysotile -
($3\text{MgO} \cdot 2\text{SiO}_2 \cdot 2\text{H}_2\text{O}$)
Grade 7M90

PHYSICAL PROPERTIES:

Specific Gravity = 2.2 - 2.3
pH = 9.4

CHEMICAL ANALYSIS:

	Calculated Theoretical Value
MgO	43%
SiO ₂	44
H ₂ O	13