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Detection of Chrysotile Asbestos in Airborne Dust from Thermosetting Resin Grinding

Authorized Reprint from
Journal of Testing and Evaluation, Vol. 3, No. 6

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1916 Race Street, Philadelphia, Pa. 19103
1975

AC6033

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Market	Typical UCC Products	Competitive Products
Floor Tile	SG-101,102,103,104	Atlas - AZ-20 Carey - 7TS-3 Johns-Manville - 7T
Tape Joint Compounds	SG-210	Carey Floats (7RF9)
Drilling Mud	Visbestos/Super Visbestos	Drilling Specialties (Johns-Manville) - Flosal Atlas 1092 <u>Also</u> Bentonite Clay
Ceiling Tile	SG-200/HPP	Carey-Zetabestos (7TF88)
Paper	SG-130	Atlas Floats
Filled Phenolics	SG-130, 200, 210	Carey Floats (7RF9) <u>Also</u> Talc
Polyester Premix	SG-200	Canadian 7T15
Textured Coatings	SG-130, SG-210	Canadian 7TF12 <u>Also</u> TiO ₂
Welding Rod Coating	SG-130	Canadian 7T05
Fireproof Stopping Sealant (Mine Water Sealer)	SG-130	Baroid Bar-a-gel

WCThurber/mc
February 12, 1975

CALIDRIA asbestos for FIBRATED ALUMINUM ASPHALT COATINGS

CALIDRIA asbestos is a finely divided short fiber chrysotile asbestos designed for use in fibrated aluminum asphalt coatings. It provides excellent bodying, quality consistency and better leafing properties due to its extremely high purity and reliable uniformity. The improved leafing properties obtainable with the CALIDRIA asbestos fiber allows you to reduce your aluminum paste requirements without suffering any loss in brightness. In addition, because of the completely non-abrasive nature and shortness of the fiber it can be easily sprayed in airless equipment. Some typical product characteristics of CALIDRIA and a suggested starting formulation are:

CALIDRIA asbestos CHARACTERISTICS

<u>PROPERTY</u>	<u>TYPICAL VALUE</u>	<u>PROPERTY</u>	<u>TYPICAL VALUE</u>
Fiber purity %	98.0	Reflectance, GE brightness, %	74
Moisture content, %	2	Oil absorption # DOP/100# CALIDRIA	120-140
Magnetite, %	0.75	Bulking value, gal./100 lbs.	4.8
Specific gravity	2.45	Aspect ratio (Average L/D)	200:1
Refractive index, n_d 25°C	1.54-1.56	Average fiber length	5 microns

SUGGESTED FIBRATED ALUMINUM ASPHALT COATING FORMULATION

	<u>Pounds</u>	<u>Gallons</u>	<u>Percent Solids</u>
Aluminum paste (65%)	170.20	13.87	10.0
Asphalt cutback @ 65%	408.20	54.46	25.2
Mineral spirits	153.18	22.98	--
High flash naphtha	34.04	4.69	--
CALIDRIA asbestos	<u>85.10</u>	<u>4.00</u>	<u>15.0</u>
	850.72	100.00	50.2

% Aluminum pigment (Percent non-volatite matter) - 21.6%
Total non-volatite matter % - 54.3%

405872



Calidria ASBESTOS

UNION CARBIDE CORPORATION • METALS DIVISION • P. O. BOX 579 • NIAGARA FALLS, N.Y. 14302 • TEL: 716-278-3376

TYPICAL PRODUCT CHARACTERISTICS FOR

STANDARD GRADE-210 (SG-210)

<u>PROPERTY</u>	<u>TYPICAL VALUE</u>
G. E. Brightness, %	68
Magnetite, %	1.7
Moisture, %	2
Alkalinity, % Na ₂ O	.05
pH	9.5
Surface Area (BET), m ² /gm.	55
Oil Absorption, lbs. DOP/100 lbs.	110
Water Absorption, %	100-120
Wet Screen, % +80 Mesh	0.3
, % +325 Mesh	12

Single Bag Weight	35 lbs.
Single Pallet Weight, 40 bags	1,400 lbs.
27' Truckload, 7 Pallets	23,800 lbs.
50' Railcar Load, 52 Pallets	72,800 lbs.

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"CALIDRIA" ASBESTOS SALES

(Domestic & Export)

Asphalt
compounds

Product	Applications	Tonnage		
		1970	1973	1974 (Budget)
SG-10X	Floor Tile M	6400	13493	10680
SG-130	Mastics M, S _u	190	278	360
SG-200	Resin filler Floor tile M	0	100	1000
AS-200	Ceiling Tile M, D, U _u	0	750	1400
SG-210	Tape Joint Compounds, Mastics, Sealants M, S	917	3946	4800
HPP	Ceiling Tile, Paper, Rubber M, D, U _u	5612	5151	5900
HPO	Resin filler, Waste Water Treatment M, U	602	351	360
HPO-J	(asphalt compounds) Drilling Fluid M, U	0	55	240
T-135-P	Paper M	438	587	480
T-135-O	Export: Ceiling (compounds) Coatings (Textures coatings) M, S, A		419	280
CG-135-P	Coatings (Latex paint) M, S, A	13	13	75
RG-100	Resin filler M	0	106	100
RG-110	Undercoat, Mastics, etc. M	650	754	1080
RG-144	Adhesives, Sealants, etc. M	407	616	700
SX-14	Same as RG-144, M	33	50	115
RG-244 *	Thixotrope M, S, A	185	808	882
SX-24	Same as RG-244	34	118	230
Visbestos	Drilling Fluid m, u	1032	254	360
Imcobest	Drilling Fluid m, u	0	999	1440
CSV	Drilling Fluid m, u	668	1344	1440
HGSV	Drilling Fluid m, u	0	468	360
Other		127	65	0
	TOTAL	17,308	30,725	32,282

M = Manufacture only U = Ordinary use

S = Sanding or grinding finished product

A = Application

I = Incineration

D = Demolition

u = unlikely

* Used by Rockwin West

UCC 025628

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3/26/78