

3M™ 7000 Series Copper Granules Little Rock

Product Data Sheet

3M 7000 Series Copper Granules, EPA Reg. No. 10350-63, are ceramic-coated minerals used as surfacing material in asphalt roofing products. These granules are colored with durable pigments, bonded in a ceramic matrix and treated to promote adhesion to asphalt. These copper containing granules are part of a system that is used to control algae.

Grade: (3M TM-006 or 3M TM-085)

<u>% Retained Specification</u>		<u>U.S. Sieve No.</u>	<u>Nominal Opening</u>	<u>Typical % Ranges*</u>
<u>Minimum</u>	<u>Maximum</u>			
0.0	0.1	8	2.36 mm	-
4.0	10.0	12	1.70 mm	-
-	-	16	1.18 mm	30 - 50*
-	-	20	850 µm	20 - 40*
-	-	30	600 µm	10 - 30*
-	-	40	425 µm	1 - 10*
0.0	2.0	-40	-425 µm	-

*Typical retained range; not covered by specification.

Dust: 0.2% Maximum <100 Mesh US Sieve (150 µm) (3M TM045)

Deoiled Color: Shipments will be +/- 2.0 unit to standard for L*, a*, and b* (3M TM007)

Moisture Content: 0.3% Maximum (3M TM057)

Color Durability: Has been proven by long-term field performance and accelerating weather tests

Opacity: 3M Roofing Granules are opaque to protect the asphalt substrate from the effects of sunlight

Hardness: 6.0-7.0 Moh's Mineral Scale

Bulk Density: 90-96 lbs./ft.³ Packed (3M TM058)

Specific Gravity: 2.55-2.70 (3M TM001)

Minimum Copper Content: 3.55 wt% Cu₂O (XRF reading for shipment composite sample per 3M TM053)

Colors: Various shades of Black, Grey

Availability: 3M Industrial Mineral Products Division
Little Rock, Arkansas, 501-490-1509, Fax 501-490-1407

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