

## 3M™ Classic Granules - #11 Grade Wausau

### Product Data Sheet

3M #11 Grade Roofing Granules 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.

**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 ± 1.0 unit to standard for L\*a\*b\* (3M TM007)

**Moisture Content:** 0.3% Maximum (3M TM057 or 3M TM098)

**Color Durability:** 3M Roofing Granules primarily contain inorganic pigments which are expected to be resistant to color change. 3M Roofing Granules are routinely monitored via natural field weathering

**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:** 94-104 lbs./ft.<sup>3</sup> Packed (3M TM058)

**Specific Gravity:** 2.60-2.90 (3M TM001)

**Colors:** Various shades of Black, Blue, Brown, Buff, Green, Grey, Olive, Red, White

**Availability:** 3M Industrial Mineral Products Division  
Wausau, Wisconsin 715-845-7241, Fax 715-845-0271

**Warranty, Limited Remedy, and Limitation of Liability:** 3M roofing granules are designed and intended for roofing applications; unless 3M separately agrees in writing any other use is not recommended or supported. Many factors that are uniquely within user's knowledge and control can affect the use and performance of 3M roofing granules in a particular application. The user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for the user's process and roofing application. Unless an additional warranty is specifically stated in a written agreement between 3M and the user, 3M warrants only that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, the exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price. Except where prohibited by law, 3M will not be liable for any loss or damage arising from the performance, use or inability to use 3M products, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted.