

3M™ Interam™ Mat Mount 1680HT

Technical Data Sheet



Product Description

3M™ Interam™ Mat Mount 1680HT is a non-intumescent, needled polycrystalline fiber mat with low sodium content (<20ppm) and low organic content (approx. 0.2%). Interam Mat Mount 1680HT is a single layer mat solution for small to large gap designs. It is designed for easy canning performance and enables design flexibility and cost optimization.

Features

- Low sodium content (<20ppm)*
- Low organic content (approx. 0.2%)
- Wide range of operating temperatures (up to 1100°C)
- Single layer mat solution for small to large gap designs
- Excellent erosion resistance
- Moderate peak compression force
- Low thermal conductivity
- Does not contain REACH Substances of Very High Concern**

Applications:

- Systems with small to large gaps (3.2-6mm)
- Gasoline and diesel applications
- Mat orientation: smooth side towards substrate.

Application Density (varies by application)

Target	0.358 g/cm ³
Design Range	0.25 - 0.50 g/cm ³

*According to ICP-AES Method

**As required by REACH Article 7 (2) (REACH Article 59 substance list, January 2024) for availability in Europe

Physical Properties

Basis weight (g/m ²)*	1100	1220	1320	1400	1540	1700	1800	1900	2030	2150
Weight /Area Range (g/m ²)	990 - 1210	1098- 1343	1188 - 1452	1260 - 1540	1386 - 1694	1530 - 1870	1620 - 1980	1710 - 2090	1827 - 2233	1935- 2365
Nominal Thickness (mm)	7.5	7.9	8.3	8.7	9.2	10.0	10.6	11.2	11.9	12.5
Thickness Range (mm)	6.5 – 8.5	6.9 – 8.9	7.3 – 9.3	7.7 – 9.7	8.2 – 10.2	8.8 – 11.2	8.8 – 12.4	9.4 – 13.0	10.0 – 13.8	10.5 – 14.5
Application Gap Area (mm)	3.1	3.4	3.7	3.9	4.3	4.8	5.0	5.3	5.6	6.0

* Actual target and design ranges vary by application. Please contact your technical service representative for guidance with your specific application

Composition Information	
Organic (%)	0.05 – 0.6
Fiber (%)	99.4 -99.95

Regulatory Information

Please refer to the product label and Safety Data Sheet (SDS) for health and safety information before using.

Contact Information

The information provided in this technical document is intended as a guide for these products. For more information or help in selecting a 3M product for an application, please contact your 3M technical service representative or call 1-800-328-1684.

Technical Information: The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information. **Product Selection and Use:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, user is solely responsible for evaluating this 3M product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property. **Warranty Disclaimer:** This 3M product is sold or made available "AS IS." 3M MAKES NO WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. **Limitation of Liability:** Except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to this 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.



Automotive Aerospace Solutions Division

3M Center, Building 223

St. Paul, MN 55144-1000

Phone: 1-800-328-1684

Web: www.3m.com/emission

3M and Interam are trademarks of 3M Company

Please recycle. Printed in USA © 3M 2024

All rights reserved.