

MED4-4900

Ammonium bicarbonate healthcare silicone foam masterbatch

DESCRIPTION

- A single component masterbatch, with the consistency of a low viscosity paste
- A masterbatch consisting of ammonium bicarbonate dispersed in a vinyl dimethyl-terminated polydimethylsiloxane polymer

APPLICATION

- For use in producing silicone foams in heat curable silicone elastomer systems

NuSil™ MED4-4900 shall not be considered for use in human implantation for a period of greater than 29 days.

PROPERTIES

| Typical Properties | Average Result | Standard | NT-TM |
|--|----------------|-------------------------|-------|
| Uncured: | | | |
| Appearance | White | ASTM D2090 | 002 |
| Cured: 10 minutes at 150°C (302°F). Stabilize for 3 hours minimum at ambient temperature and humidity | | | |
| Tissue Culture (Cytotoxicity Testing) | Pass | USP <87> ISO 10993-5 | 061 |

The above properties are tested on a lot-to-lot basis. Do not use as a basis for preparing specifications. Please [contact](#) NuSil Technology for assistance and recommendations in establishing particular specifications.

INSTRUCTIONS FOR USE

The MED4-4900 masterbatch is designed to be blended into various silicone elastomer systems such as low consistency elastomers, liquid silicone rubbers, or high consistency rubbers. The rheology of MED4-4900 enables it to be easily blended into the silicone system of choice through conventional mixing or milling equipment and techniques.

Suggested concentration of 1 pph masterbatch by weight is recommended to produce a silicone foam, but the ideal amount may vary depending on the desired effect of the molded or extruded component. Other factors that may influence the foam density are time and temperature of the cure, rheology of the base silicone used, and different blending techniques. It is recommended to determine the optimal parameters for your specific application.

REACH COMPLIANCE

Please [contact](#) NuSil Technology's Regulatory Compliance department with any questions or for further assistance.

SPECIFICATIONS

Do not use the properties shown in this technical profile as a basis for preparing specifications. Please [contact](#) NuSil Technology for assistance and recommendations in establishing particular specifications.

WARRANTY INFORMATION

The warranty period provided by NuSil Technology LLC (hereinafter "NuSil Technology") is 12 months from the date of shipment when stored below 40°C in original unopened containers. Unless NuSil Technology provides a specific written warranty of fitness for a particular use, NuSil Technology's sole warranty is that the product will meet NuSil Technology's then current specification. NuSil Technology specifically disclaims all other expressed or implied warranties, including, but not limited to, warranties of merchantability and fitness for use. The exclusive remedy and NuSil Technology's sole liability for breach of warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. NuSil Technology expressly disclaims any liability for incidental or consequential damages.

Packaging

50 Gram
100 Gram
1 Pint (455 g)

Warranty

12 Months

WARNINGS ABOUT PRODUCT SAFETY

NuSil Technology believes, to the best of its knowledge, that the information and data contained herein are accurate and reliable. The user is responsible to determine the material's suitability and safety of use. NuSil Technology cannot know each application's specific requirements and hereby notifies the user that it has not tested or determined this material's suitability or safety for use in any application. The user is responsible to adequately test and determine the safety and suitability for their application and NuSil Technology makes no warranty concerning fitness for any use or purpose. NuSil Technology has completed no testing to establish safety of use in any medical application.

NuSil Technology has tested this material only to determine if the product meets the applicable specifications. (Please [contact](#) NuSil Technology for assistance and recommendations when establishing specifications.) When considering the use of NuSil Technology products in a particular application, review the latest Material Safety Data Sheet and [contact](#) NuSil Technology with any questions about product safety information.

Do not use any chemical in a food, drug, cosmetic, or medical application or process until having determined the safety and legality of the use. The user is responsible to meet the requirements of the U.S. Food and Drug Administration (FDA) and any other regulatory agencies. Before handling any other materials mentioned in the text, the user is advised to obtain available product safety information and take the necessary steps to ensure safety of use.

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