



Factor II, Incorporated

Inventing and Innovating...

(Information: 1.928.537.8387)

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PRODUCT INFORMATION **A-106 2370 PROSTHETIC FOAM (RTV)**

PRODUCT DESCRIPTION:

A-106 (2370) is a liquid silicone polymer which when catalyzed rapidly yields a low density silicone rubber foam. This is a easy to use two-part system- chemically inert. Thermal stability 73°C to 250°C. (100°F to 482°F) and is pigmentable.

TYPICAL PROPERTIES AS SUPPLIED: TYPICAL PROPERTIES UNCURED

Chemical Class	MQ
Color	Tan
Viscosity, cp	4700
Density, lbs/ft ³ , non-confined	10

MIXING:

Mix Base to Catalyst at 100 parts to 6 parts. Thoroughly mix A-106 prior to catalyst addition to insure uniformity in the cured foam. Mixing may be accomplished by hand, however, best results are obtained by using a high speed agitator or a special two-component mixing device to eliminate air entrapment. Mix for 20 seconds. Foaming will begin almost immediately upon addition of catalyst and will continue for approximately three minutes. The foam can be handled within about ten minutes after pouring; however, allow 24 hours for optimum physical properties. Confining the foam will result in a higher specific gravity.

WORK TIME:

Working time or pot life can be extended by storage at a low temperature. Working time is extended to approximately 15 minutes at 18°C (0°F). Reducing the catalyst level will also result in extended pot life. Any measurement under 3 parts catalyst to 100 parts base by weight will result in incomplete vulcanization of the material

TIPS:

1. To enhance shelf life, store base material in a refrigerator.
2. Do Not Refrigerate Catalyst.
3. Return base to room temperature before using.
4. Thoroughly mix base before each use.

To achieve a slightly tougher foam, you will want to force the form to vulcanize under some level of compressive force. The 2370 foam will free rise to 10 to 20 pounds per cubic foot. by slightly overfilling the cavity to be filled you can increase the density of the cured material, thereby giving you a slightly denser foam.

When the catalyst is added to the base material, two reactions take place.

1. A catalytic reaction which causes the silicone elastomer to vulcanize.
2. A hydrogen gas is produced, creating air space within the foam. It is possible to speed up the hydrogen gas reaction by adding 1 part per hundred (by weight) distilled water to the base mixture, before adding the catalyst.

CAUTION:

HYDROGEN GAS, is released in the foaming process/ Fabrication should be conducted in a well ventilated area free of open flame or sparks.

STANNOUS OCTOATE, (the catalyst) should never come in contact with the eyes. It will produce irritation and could cause damage to the cornea.



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