3 Dynamar[™] Bonding Agent/Processing Aid HX-878

All measurements at

25°C, 1 atm unless noted

Description A reaction product of tetraethylene pentamine with acrylonitrile and glycidolsometimes referred to as "TEPANOL." Suggested When added to a solid rocket propellant formulation containing ammonium Use perchlorate at a concentration of 0.05% to 0.5% by weight, Dynamar[™] HX-878 may reduce the end of mix viscosity, as well as improve the mechanical properties of the cured propellant. Since HX-878 reacts with the surface of ammonium perchlorate to liberate ammonia, it should be added early in the mix cycle. The ammonia must be removed by vacuum, or preferably by sparging before the curatives are added. Appearance Amber liquid Typical **Properties** Not for specification Flash Point (Penske-Martens Closed Cup)>110°C (>230°F) purposes Total Amine Content EQ/100g 1.0

Hydroxyl Content EQ/100g. 0.5

Product

Information

Safety and Toxicology	Material Safety Data Sheets are available from 3M Performance Materials Division.
Storage	To minimize ammonia evolution and viscosity increase, we recommend storage at $-18^{\circ}C$ (0°F) and protection from moisture.
Shelf Life	Shelf life is two years with proper storage.
Packaging	One-pound and forty-pound units.
3M Corporate Headquarters	3M Specialty Materials 3M Center, Building 223-6S-04 St. Paul, MN 55144-1000 800 367 8905 800 810 8514 (Fax)

Important Notice to Purchaser: The information in this publication is based on tests that we believe are reliable. Your results may vary due to differences in test types and conditions. You must evaluate and determine whether the product is suitable for your intended application. Since conditions of product use are outside of our control and vary widely, the following is made in lieu of all express or implied warranties (including the warranties of merchantability or fitness for a particular purpose): 3M's only obligation and your only remedy is replacement of product that is shown to be defective when you receive it. In no case will 3M be liable for any special, incidental, or consequential damages based on breach of warranty or contract, negligence, strict tort, or any other theory.



3M Specialty Materials

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