

TECHNICAL DATA SHEET Cynergy CA7101

03/15/2010

W186 N11687 MORSE DRIVE GERMANTOWN, WI 53022 262-502-6610 FAX 262-502-4743

DESCRIPTION:

Cynergy CA7101 is a low viscosity methyl cyanoacrylate adhesive. It sets extremely quickly, typically in several seconds on most substrates. It was formulated to bond a variety of metals with high strength. It is ideal for bonding metal to metal or metal to other substrates, such as, rubber, plastics, and wood. The product meets Military specification MIL-A-46050C Type I Class I.

Common substrates

Aluminum	Polycarbonate	Copper
Stainless Steel	Rubbers	Steel

Set Times:

At standard indoor temperature and humidity, surface moisture on the substrates initiates the curing process. Handle strength is developed in a short time but curing continues for at least 24 hours before full chemical/solvent resistance is developed. The rate of cure will depend on substrate used.

Substrate	Set Time (seconds)	Substrate	Set Time (seconds)
Aluminum	30-60	Steel	20-40
ABS	10-25	Rubbers	< 10
Zinc Dichromate	30-60	PVC	30-70

Typical Lap Shear:

Substrate	Lap Shear (psi)	Substrate	Lap Shear (psi)
Grit Blasted Steel	>3600	Etch Aluminum	>2900
Rubbers	>2175	Polycarbonate	>1885
Zinc Dichromate	>1450	ABS	>2000

PHYSICAL PROPERTIES:

All properties given are at 25°C unless otherwise noted.

PROPERTY:	<u>VALUE:</u>	TEST METHOD:
Color	Clear	Visual
Viscosity	2 cps	Brookfield LVT
Nominal Gap fill	0.05 mm	

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PROPERTY:	<u>VALUE:</u>	TEST METHOD:
Specific Gravity	1.05	
Glass Transition Temp (by DSC)	165 °C	ASTM E228
Melting Point	160-170°C	
Tensile Strength	2600 - 4300 psi *	ASTM
Thermal Conductivity	0.1 W/m°K	ASTM C177
Coefficient of Thermal Expansion	80 ppm/°C	ASTM D696
Dielectric Strength	625 v/mil	ASTM D149
Temperature Range **	-60 to 80°C	

INSTRUCTIONS:

- 1. Bring to room temperature prior to use if stored refrigerated. Surfaces should be clean and dry and free of and grease or debris. A light abrasion is recommended if possible.
- 2. If using an accelerator, apply to one surface only. Apply a thin film of adhesive to the other side and assemble immediately. Do not disturb or re-align joint until parts are set.

STORAGE:

Shelf life is one year at room temperature (77°F / 25°C). Refrigerated storage at 40°F is recommended to maximize shelf life. When stored in a refrigerator, allow the adhesive to gradually warm to room temperature prior to use. Avoid heat, direct sunlight and high moisture areas when storing. Avoid contaminating open containers. Do not return unused adhesive to original container. DO NOT refrigerate open containers.