

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

DESCRIPTION:

Cynergy CA7105 is a high viscosity methyl cyanoacrylate adhesive. It has a medium set time to 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 MLLA 46050C Type I Class III.

Common substrates

- Aluminum
- Zinc Dichromate
- Nitrile Rubber
- Stainless Steel
- Neoprene Rubber

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.

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

Typical Lap Shear:

<i>Substrate</i>	<i>Lap Shear (psi)</i>	<i>Substrate</i>	<i>Lap Shear (psi)</i>
Grit Blasted Steel	>3600	Etch Aluminum	>2900
Rubbers	>2175	Zinc Dichromate	>1450
Polycarbonate	>1885	ABS	>2030

PHYSICAL PROPERTIES:

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

<u>PROPERTY:</u>	<u>VALUE:</u>	<u>TEST METHOD:</u>
Color	Clear	Visual
Viscosity	1,500 cps	Brookfield LVT
Nominal Gap fill	0.45 mm	

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<u>PROPERTY:</u>	<u>VALUE:</u>	<u>TEST METHOD:</u>
Specific Gravity	1.05	
Glass Transition Temp (by DSC)	165 °C	ASTM E228
Melting Point	160-170 °C	
Tensile Strength	2610 - 4350 psi *	ASTM
Thermal Conductivity	0.1 W/m ² K	ASTM C177
Coefficient of Thermal Expansion	100 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.