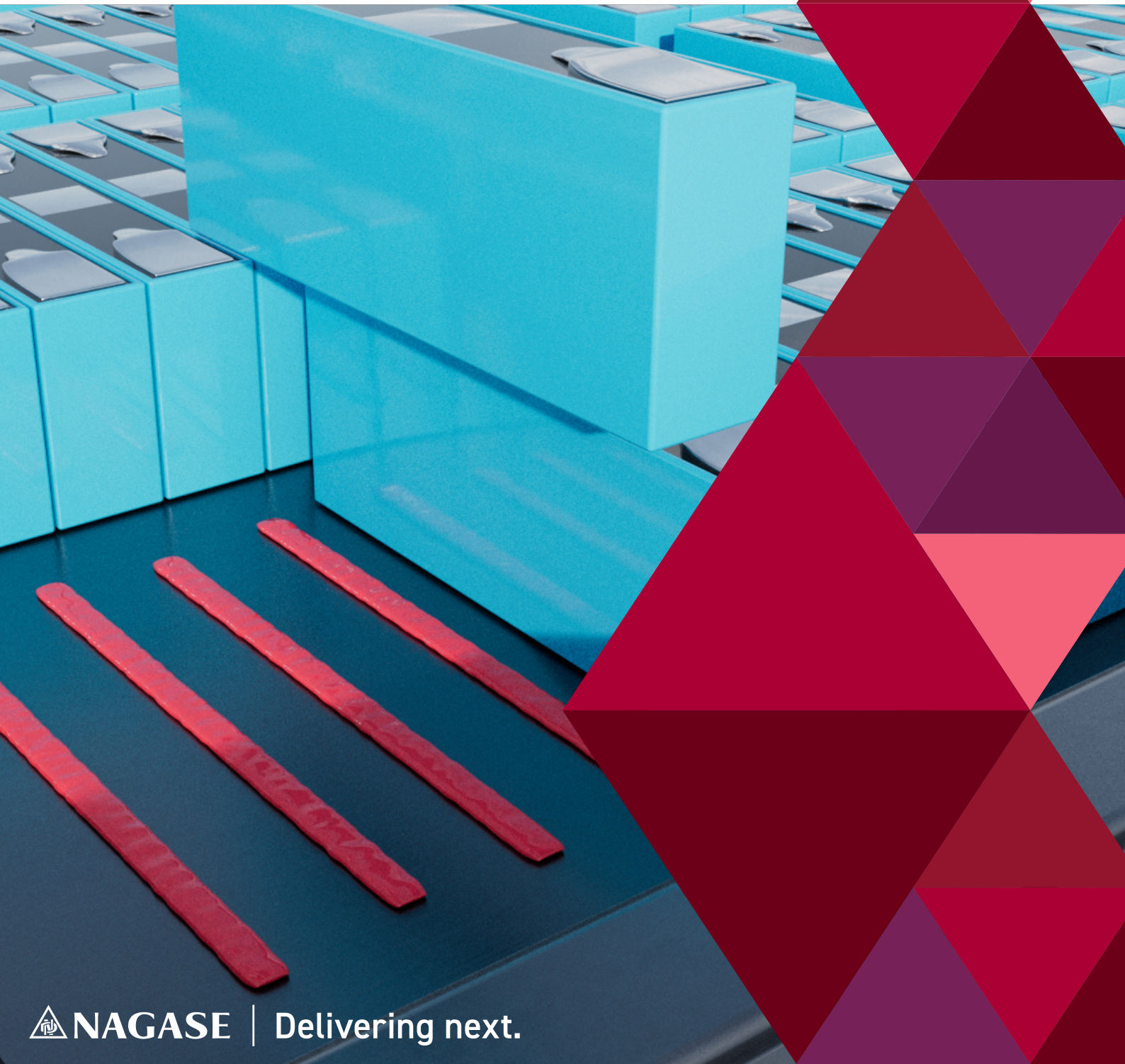




 PRODUCTS FOR BATTERY

Thermally Conductive Adhesive



CGW[®]-2ST-AD (A/B)

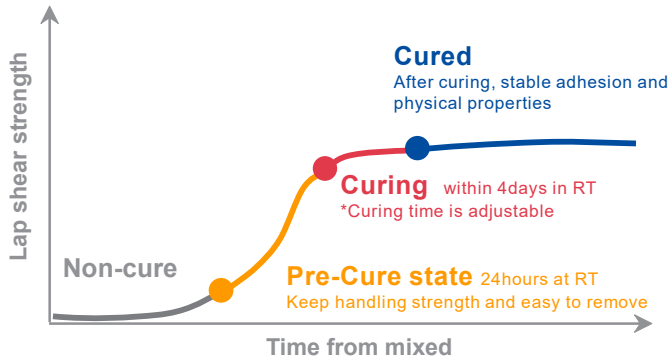
Description

CGW[®]-2ST-AD is 2-part liquid non-silicone thermally conductive adhesive curable at room temperature. This product provides extremely low specific gravity at a thermal conductivity of 2W/m·K, which is ideal for high volume applications like Cell-to-Pack EV battery packs, converter or inverter.

It offers low viscosity, excellent dispensability and compressibility before curing. Even after being cured, CGW[®]-2ST-AD remains flexible and resistant to vibration while reaching high adhesive strength.

Dispensable non-silicone type

CGW[®] series 2-part component



The 2-component stress reaction type provides outstanding productivity and formability

Features

- Two-part, liquid gap filling, dispensable material
- Room temperature curable
- Accelerate curing time by heating
- High thixotropic, holding three-dimensional shape
- Low stress, easy squeezing
- No oil bleeding in various environment

Application

- Electronics device
- EV / PHEV / HV battery assembly
- Medical electronics

Typical properties (Under development)

Mixing ratio	1:1
Color (A)	Pink
Color (B)	White
Viscosity (A)	280 Pa·s
Viscosity (B)	300 Pa·s
Specific gravity (A)	2.1
Specific gravity (B)	2.1
Pot life at 25°C (Up to twice of initial viscosity)	>1 hrs. (adjustable : 0.5~3hrs.)
Curing time at 23°C	4 days (adjustable : 2~7days)
Thermal conductivity (ASTM D 5470)	2.0 W/(m·K)
Adhesive strength to substrate, at 0.5-2.0mmt	PET: 0.6MPa Al: 0.8MPa (adjustable : up to 1.5 MPa)
Flame rating (UL94)	V-1 equivalent
Volume resistance(100V)	$\geq 1 \times 10^{10} \Omega$
Breakdown voltage	$\geq 10 \text{ kV/mm}$

※The above figures are measured values, not the values for guaranteeing.

Packaging

- Dual cartridge (25cc x2, 100cc x2, 200cc x2)
- 600cc cartridge kit
- 20L pail kit
- 200L drum kit

*Only same lot number of A and B may be processed together

Storage

Store in dry and cool place (1~30°C) without direct sunlight. Keep away from heat, flame and vibrating machine. If stored in long time, product can not use due to filler sedimentation. Best to use up shortly after purchasing.

