

ELECTRICAL HI-TEMP ADHESIVES

For Medical, Electronic and Structural Applications

500°F - Duralco NM25 Magnet Bonding Adhesive

Duralco NM25 is a 500°F adhesive proven for bonding magnets while withstanding the high temperatures encountered in high performance applications.

This Magnet Bonding Adhesive was specially formulated with Cotronics' unique, room temperature curing, 500 °F epoxy system and has been modified for magnetic bonding.

It is free of magnetic particles or conductive fillers which would interfere with magnetic fields while in use.

Just mix and apply. NM25 cures at room temperature to provide excellent chemical, solvent and moisture resistance.

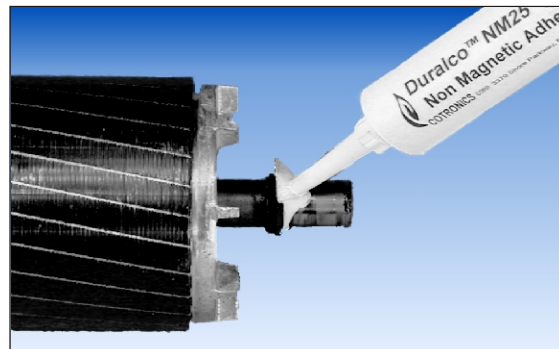
Will form thin bond lines and is ideal for use in applications with minimum clearance.

Will adhere to difficult to bond magnets and to °C motors. Can be used where difficult gaps may be encountered

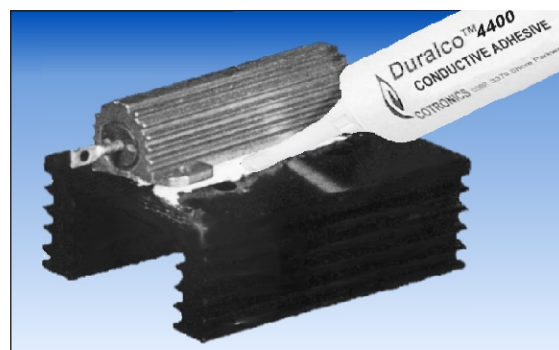
Duralco NM25 is a medium viscosity formulation that forms thin bond lines.

Duralco NM25 HV is a non-sag, putty suitable for large gaps and easy dispensing.

Duralco NM25 HT is a medium-high viscosity formulation for use up to 600 °F after a moderate heat cure.



Duralco NM 25 Bonds a Motor Shaft Providing a High Strength Bond without Magnetic Interference



Duralco 4400 Dissipates Heat in a Semi Conductor Device

400°F - Duralco 4400

Transmits Heat - Electrically Resistant

Use **Duralco 4400** for high strength, thermally conductive and electrically resistant bonds.

Cures at room temperature without objectionable odors.

Duralco 4400 provides the thermal shock resistance and flexibility required to accommodate differences in thermal expansion which occurs during high heat flows.

Users Report:

- A "glass feed thru" was bonded to a brass housing and repeatedly cycled from liquid Nitrogen temperatures to 250°F, while maintaining its vacuum integrity.

Duralco 4400's unique combination of bond strength, flexibility and thermal conductivity proved to be successful in this severe environment.

Availability:

Cat No.	Description	Temp.
Duralco NM 25-1	Pint Kit	500°F
Duralco NM 25 HV-1	Pint Kit	500°F
Duralco NM 25 HT-1	Pint Kit	600°F
Duralco 4400-1	Pint Kit	400°F
Duralco 4400-2	Gallon Kit	400°F

Epox-EEZ Pre-Measured Epoxy Kits See page 51

Quantity Prices or Custom Formulations on Request

DURALCO	NM25	NM25HT	4400
Maximum Temp °F	500	600	400
Components - Color	2-Tan	2-Tan	2-Tan
Viscosity (cps)	Paste	40,000	100,000
Density (gm/cc)	1.9	1.9	2.2
Hardness (Shore 'D')	80	94	80
Tensile Strength (psi)	10,000	11,100	7,000
Thermal Conductivity (BTU-in/ Hr. Ft ² °F)	13	13	20
Thermal Expansion (x 10 ⁻⁵ /°C)	6.4	6.4	1.7
Dielectric Strength (volts/mil.)	500	555	625
Volume Resistivity (ohm-cm)	10 ¹⁵	10 ¹⁶	10 ¹⁴
Heat Distortion (°C)	210	300	170
Elongation (%)	2	2	2
Thermal Stability (% 1000 hr. @ 200°C)	0.5	0.1	0.6
Shrinkage (% max)	0.2	0.2	0.4
Moisture Absorption (% 30 Days)	0.2	0.02	0.28
Cure (Hr. @ Room Temp.)	4-16	4 @ 250°F	4-16
Mix Ratio (R / H)	100/8	100/28	100/21