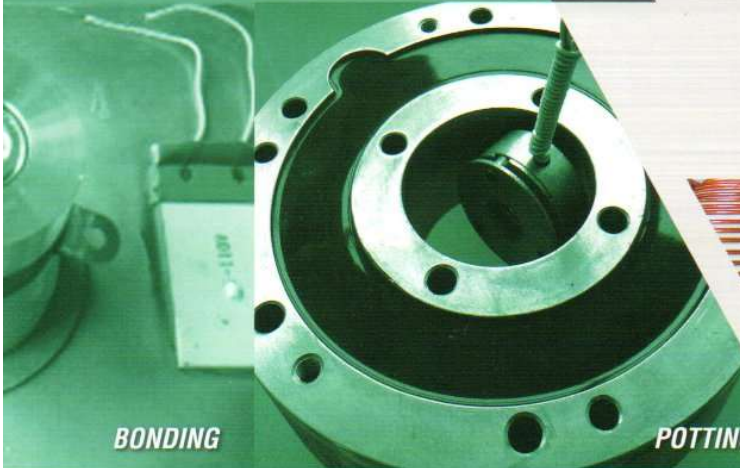




IATF16949 : 2016 / ISO9001 : 2015 / ISO14001 : 2015 / OHSAS18001 : 2007
Certification Accredited



BONDING

POTTING



STRENGTHENING



THERMAL
CONDUCTIVITY

Solution to the Materials applied in Electric Motor Industries

- ACTIVE
- SMART
- EFFICIENT
- CREATIVE

Everwide is a famed chemical firm based in Taiwan. With the plentiful support from the material suppliers in Europe, America, Japan, Korea, and Taiwan, we can provide our customers the most efficient solutions required for the above-said applications to achieve more flexible structural design and much higher specifications of environment endurance test. In this way, the optimal cost-performance ratio and technical service level will be offered for application materials.



Comprehensive solutions to the bonding material of motor industries.

Since its incorporation, Everwide was engaging in the potting molding of heavy-duty motor components for applying in motor industries. For example, the cast molding transformer for the power plant and the insulating potting of large-sized transformer cabinet, etc. Later on, we expanded the business in the development of micromotor.

Listed below are the characteristics of the glue essential for the application in this sector:

- The dielectric intensity of the glue should be over 18KV/mm.
- Most of the glue must be fire prevention certified and meet the UL94V-0 standard in most cases.
- Minimum heat-resistant level should be 90°C. Currently, normal level is 105°C and ideally it should reach 155°C if possible.
- More stringent quality inspection will be imposed for the glue.
When used in the transportation industry, it must be ISO-TS16949 certification accredited.
- The environment test standards commonly accepted are -40°C *240hr, +125°C *240hr, -40°C (120min)-125°C (120min)*100 cycles, 85°C *85% RH*1000hr, and 3% Salt Test for 168hr.
- Meeting the international environmental protection codes, such as RoHS, RoHS 2.0, Halogen Free, PFOA, PFOS and REACH, etc.

The industry will be divided into the Micromotor, and Medium-sized Heavy-Duty Motor.

Micromotor



Heavy-Duty Motor



Customers successful in applying Everwide product series:

Motor	Cooling Fan	Deepwater Pump	Ultrasonic Vibrators	Electromagnetic Arrester	Transformer	Inductor	Piezoelectric Ceramics
FOXNU, DELTA, CONSTARMOTOR, ORIENT STAR	ASIA VITAL, YU LI, SUNON	ASIA VITAL	CODYSON	CHAILTAIL, YAN CLUTCH, RAYDI	CYNTEC, TAI-TECH	STAR, INDUCTEK	PANPIEZO

Motor industries successful in applying Everwide product series:

Electrical wire fixing, fast curing epoxy, light-activated tenacious acrylic resin:

MODEL FP984 Light-activated Resin, JA484-3AB 5-minute Eco-friendly performance, quick setting epoxy.

- Suitable for the bonding of PA+fiberglass body and the securing/strengthening of PVC, CGVC wires. It shall sustain the tearing force without loosening.
- With the efficiency most suitable for the production line, it achieves extremely quick glue pre-setting speed.
- With excellent weathering resistance, the glue shall tolerate following conditions, e.g. -40°C *500hr, 100°C *500hr, -40°C~85°C *240 times and 85°C *85% RH*240hr.



Bonding of silicon steel plate and plastic shaft for the cooling fan industry:

MODEL JC666AB Series, High-rigidity Epoxy

- It not only exhibits extremely strong bonding force for silicon steel plate and plastic shaft but also lowers the noise under high-speed operation.
- It maintains certain level of balance for the cohesion between the base material and the glue.
- With excellent weathering resistance, the glue shall tolerate following conditions, e.g. -40°C *500hr, 100°C *500hr, -40°C~85°C *240 times and 85°C *85%, RH*240hr.



The sealing of Electromagnetic Brake industry and the potting of magnetic embedded in the stainless steel body:

MODEL JC684AB Series

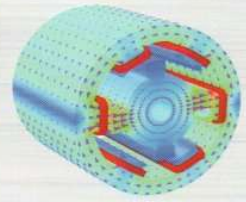
- Meets the fire prevention class specified in UL 94V-0 and complies with the environmental protection codes.
- Tenacious bonding should be achieved for the base material. For this reason, the product should not present expanding or cracking when exposing to high temperature; further, it should be low in shrinking stress when cooling down.
- The glue presents excellent chemical resistance to sustain the erosion of oil. Further, it should be durable for the high-temperature, low-temperature, high-temperature/high humidity, and cold/heat cycle test.



The mounting and inserting bonding between magnetic and main body for Brushless Motor industry:

MODEL JD380 Series, JC315 Series

- Rigid bonding is required when applying the glue to the base material, because such product demands strong resistance against high temperature.
- Meet applicable environmental protection codes, such as RoHS, Halogen Free, PFOA, PFOS, and REACH, etc.
- 1-component epoxy is used to work with a variety of heat-resistant magnetics for designing the required heating temperature. For example, the product requiring 100°C, 120°C, 130°C and 150°C curing temperature.
- With excellent weathering resistance, the glue shall tolerate following conditions, e.g. -40°C *500hr, 120°C *500hr, -40°C~125°C*240 times, and 85°C *85%, RH*240hr, 3% salt test *240hr.



Coil corrosion-resistant insulating potting and sealing for Brushless Motor industry:

MODEL JD191AB Series, JC198AB Series

- Superb operability for easier glue mixing and bubble removing. After the potting, it presents very strong penetration and force the bubbles to float for easier breaking.
- Meets the fire prevention class specified in UL 94V-0 and complies with the environmental protection codes.
- 2-component epoxy is used to work with the low-temperature baking process, allowing the glue to achieve quicker reaction and higher insulation class as well.



Suitable for the potting of Deepwater Motor industry. Resist against high/low temperature, moisture, and salt fog corrosion.

MODEL NF041AB Series

- Excellent bonding performance for the stainless steel housing. Superb in insulation and heat transfer performance.
- A working parameter most suitable for the production line. The product is designed for easier mixing, vacuum extraction and potting, bubble elimination while avoiding settlement.
- With excellent weathering resistance, the glue shall tolerate following conditions, e.g. -40°C *500hr, 100°C *500hr, -40°C -85°C *30 times and 85°C *85%, RH*168hr.
- Meet applicable environmental protection codes, such as RoHS, Halogen Free, PFOA, PFOS, and REACH, etc.



Vibrator fixing and bonding for Ultrasonic Vibrator industry:

MODEL JD114 Series

- The bonding force of the glue on the stainless steel tray shall achieve the required deformation resistance. Furthermore, it shall be durable after being dropped three times without loosening.
- It maintains certain level of balance for the cohesion between the base material and the glue. Further, it shall be durable for temperature over 120°C without softening.
- With excellent weathering resistance, the glue shall tolerate following conditions, e.g. -40°C *500hr, 100°C *500hr, -40°C~85°C *240 times and 85°C *85%, RH*240hr.



potting and sealing of Cast Molding Transformer industry:

MODEL NF421 Series

- Meets the fire prevention class specified in UL 94V-0 and complies with the environmental protection codes.
- Tenacious bonding should be achieved for the base material. For this reason, the product should not expand or crack when exposing to high temperature; further, it should be low in shrinking stress when cooling down.
- The glue presents excellent chemical resistance to sustain the erosion of oil. Further, it should be durable for the high-temperature, low-temperature, high-temperature/high humidity, and cold/heat cycle test.
- The product can satisfy the customer's high demand for insulation performance. After being potting, it presents excellent bubble breaking and lustrous appearance.



Everwide Products:



The above-said product series are manufactured through stringent long-term high-temperature test. Listed below are examples of the tests:

Bonding area: 25.4mm*10mm / Tensile Strength Unit: Kgf / Tensile Speed: 5mm/min / Subject Material: Aluminum Plate

High Temperature Strength					
Product-A	25C	80C	100C	120C	150C
Tension Value (kgf)	610	332	172		
Product-B	25C	80C	100C	120C	150C
Tension Value (kgf)	666	538	464	342	
Product-C	25C	80C	100C	120C	150C
Tension Value (kgf)	393	221	190	79	
Product-D	25C	80C	100C	120C	150C
Tension Value (kgf)	615	610	509	375	261

Cold/Heat Impact (-40°C / 30min~125°C / 30min / 100 cycles)				
Product-A	1	2	3	Initial Strength
Tension Value (kgf)	552	637	599	610
Product-B	1	2	3	Initial Strength
Tension Value (kgf)	779	772	716	666
Product-C	1	2	3	Initial Strength
Tension Value (kgf)	363	394	373	393
Product-D	1	2	3	Initial Strength
Tension Value (kgf)	642	651	666	615

High Temperature – High Humidity (85°C / 85%RH / 240hrs)				
Product-A	1	2	3	Initial Strength
Tension Value (kgf)	323	349	337	610
Product-B	1	2	3	Initial Strength
Tension Value (kgf)	649	596	580	666
Product-C	1	2	3	Initial Strength
Tension Value (kgf)	321	242	276	393
Product-D	1	2	3	Initial Strength
Tension Value (kgf)	430	443	392	615

Cold/heat Cycle (-40°C / 30min~125°C / 30min / 100 cycles)				
Product-A	1	2	3	Initial Strength
Tension Value (kgf)	528	596	598	610
Product-B	1	2	3	Initial Strength
Tension Value (kgf)	665	652	636	666
Product-C	1	2	3	Initial Strength
Tension Value (kgf)	331	303	375	393
Product-D	1	2	3	Initial Strength
Tension Value (kgf)	607	604	613	615



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