



INSULATING VARNISH MV428-W28 IS A SOLVENT VOLATILIZING TYPE INSULATING VARNISH AND ALKYD RESIN IS A MAIN COMPONENT. IT IS BEING USED FOR THE VERY HIGH VOLTAGE ELECTRICAL APPLIANCES. PARTICULARLY, IT IS USED FOR COATING, HIGH-HEAT RESISTANCE IS REQUIRED

Recommended use	1. COATING FOR MOTOR COILS, ELECTRIC GENERATOR COILS AND TRANSFORMER COILS.
	2. USING FOR DIPPING COIL, REQUIRING HIGH-VOLTAGE INSULATION.
Feature	1. FAST DRYING (SOLVENT VOLATILIZING TYPE) INSULATING VARNISH.
	2. GOOD ABRASION, MOTOR OIL RESISTANCE.
	3. GOOD FLEXIBILITY AND DIELECTRIC STRENGTH..

Physical Properties

Finish and Color	TRANSPARENT LIGHT BROWNISH	
Specific gravity	0.93 – 0.97	
Solids by volume	46 – 50% (105°C × 90MINS)	
Spreading rate (Theoretical)	15m ² /L, 30micron	
Viscosity	1.0 – 3.0 POISE (LVT#2,60rpm)	
THERMAL CLASS	B CLASS (130°C)	
SPECIFICATIONS	1. APPEARANCE	: TRANSPARENT LIGHT BROWNISH
	2. S/G(25°C)	: 0.93 – 0.97
	3. VISCOSITY(25°C)	: 1.0 – 3.0 POISE (LVT#2,60rpm)
	4. NON-VOLITILE(%)	: 46 – 50% (105°C × 90MINS)
	5. ACID VALUE	: MAX.10 (SOLID)
	6. SPREAD RATE	: 15m ² /L, 30micron
	7. OIL RESISTANCE	: NO DAMAGE. AFTER 120 ± 3°C × 24HRS HEATING 105 ± 3°C × 24HRS IN OIL
	8. FLEXIBILITY	: NO DAMAGE. AFTER 120 ± 3°C × 2HRS HEATING 120 ± 5°C × 24HRS HEATING, 3mm ROUND BAR. NO DAMAGE AFTER 140 ± 3°C × 40HRS HEATING, 3mm ROUND BAR.
	9. DRY HARD	: 120°C × 2HRS.
ELECTRICAL PROPERTIES	1. VOLUME RESISTIVITY (Ω – cm, 20°C)	: DRY FILM MIN. 1.0 × 10 ¹⁴ AFTER 24HRS IN WATER MIN. 1.0 × 10 ¹³
	2. BREAKDOWN VOLTAGE (Kv/0.1mm, 20°C)	: DRY FILM MIN. 8.0 AFTER 24HRS IN WATER MIN.5.0

Application details

Surface preparation	REMOVE THOROUGHLY OIL AND GREASE, RUST, DUST AND OTHER IMPURITIES ON THE SURFACE.
Thinning	USE 012THINNER WHEN NEEDED
Drying time	MIN. 120°C × 2 HOURS
Recoating interval	AFTER DRY HARD

Storage and package

Packing Unit	1. VARNISH : 18L
	2. THINNER (012THINNER) : 18L

Remarks	
Note	1.STORAGE CONDITION (PACKING VESSEL) – STORE IN A DRY, COOL AND DARK PLACE WITH ITS CAB CLOSED COMPLETELY. – AVOID WATER AND SUNSHINE WHEN STORE IN OUTDOOR PLACE * IT IS POSSIBLE TO MAINTAIN ITS QUALITY FOR 6MONTHS WITH A GOOD SHAPE, WHEN OBSERVE ABOVE ITEMS. 2.STORAGE CONDITION (DIPPING TANK) – WHEN USE, CONTROL IT WITH A LOW TEMPERATURE AS MUCH AS POSSIBLE TO AVOID SOLVENT VENTILATION AND FIRE. – WHEN STOP WORKING, COVER IT WITH A COVERAGE TO AVOID VENTILATION OF SOLVENT. – WHEN HANDLING FOR A LONG TIME, IT MAY BE CONTAMINATED BY DUST, MOISTURE AND SKINNING, ETC. CLEAN DIPPING TANK ABOUT 2 TIMES A YEAR. – SMALL SIZE DIPPING TANK IS PROFITABLE FOR ITS QUALITY CONTROL. 3.THINNING METHOD – BEST METHOD IS USING AN UNDILUTED VARNISH. BUT, WHEN ADDING THINNER FOR THE APPEARANCE, WORKABILITY AND REPLENISHING SOLVENT, USE 012THINNER. – DON'T ADD THE THINNER WITH A LARGE QUANTITY. IT MAY CAUSE PROBLEM OF THE VARNISH QUALITY. 4.QUALITY CONTROL METHOD OF VARNISH – GIVE ATTENTION TO QUALITY CONTROL OF VARNISH TO PRODUCE PRODUCTS WITH A UNIFORM QUALITY. – PREPARE AND PUT INTO OPERATION THE STANDARD QUALITIES OF THE SPOT (APPEARANCE, VISCOSITY, SPECIFIC GRAVITY. ETC) – WHEN START WORKING, REPLENISH NEW VARNISH AND USE IT ACCORDING TO METHOD OF THE STANDARD QUALITIES OF THE SPOT. ※ WHEN HANDLING, AVOID CONTACTING WITH SKIN AND EYES, WEAR A PROTECTIVE SUIT, CHEMICAL GOGGLES AND PVC GLOVES. USE IT IN CONDITION OF GOOD VENTILATION AND AVOID EXCESSIVE INHALATION OF VAPOR. 5.STORAGE LIFE – 6MONTHS IN UNBROKEN PACKAGE AND THE PLACE WHERE THE STORAGE TEMP. IS BETWEEN 5 – 30°C. (IT SHOULD BE STORED IN A COOL AND DARK PLACE)
1'st issue	
Revision	

