

MOTOR COIL INSULATION

SILICONE BASED INSULATION

FOR FLEXIBILITY, DURABILITY, AND STABILITY



Electric motors are expected to deliver high reliability over long periods of service in the harshest environments. For over sixty years, silicone has demonstrated superior insulation performance for primary field coils in traction motors. Silicone's unique chemical "backbone" provides the foundation for Arlon's coil insulation products, which meet the toughest service requirements for electric motor use.



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Arlon's Silicone Based Insulation offers the following benefits:

- **Flexibility:** Silicone rubber resists damage due to vibration, frame movement under load and thermal expansion/contraction in use. Silicone based insulation remains flexible even after many years in extreme service conditions.
- **Thermal Stability:** Silicone based insulation remains flexible and resilient to thermal shock, even after years of cold motor starts as low as -54°C and running conditions up to 260°C.
- **Electrical Insulation:** Silicone based insulation has excellent dielectric strength, dielectric integrity over a wide temperature range, and resists arc tracking, current leakage, corona damage, and dielectric fatigue.
- **Ozone and Weather Resistance:** Unique silicone chemistry resists oxidative embrittlement, damage by ozone and other atmospheric chemicals, and seals against moisture, carbon dust, dirt, and debris.

Arlon is the leading provider of silicone motor coil insulation materials. Our products, field tested for over 50 years, provide excellent electrical insulation, even in the most challenging operating conditions. You can count on Arlon for all of your coil insulation needs.

Silicone Motor Coil Insulation Products:

51228R020

Primary Field Coil Insulation*

OEM Product Numbers:

GE 84A210606P154, GE 84A210606P157

51228R015, 51268R015P

Primary Field Coil Insulation*

OEM Product Numbers:

GE 41A239176P70, GE 41A239176P71

P29514R020

Primary Field Coil Insulation, meets EMS*

558 specification

OEM Product Numbers:

EMD 8205562, EMD 8227441, EMD R718024

P29514R015

Primary Field Coil Insulation*, meets EMS

558 specification

OEM Product Numbers:

EMD R718051, EMD R718077, EMD 8220410, EMD 40100391, EMD 8206522, EMD 8257527

P29609R020

Primary Field Coil Insulation*

OEM Product Number: GE 21261

P29600R011

Primary Field Coil Insulation*

OEM Product Number: GE

84A210606P158

T3020-R004-12

Self-fusing connector junction insulation,

meets GE A50E112, EMS 2074

specifications

OEM Product Number: EMD 8355873

P3272-10R12-P4

Self-fusing connector junction insulation,

meets EMS 2074 specification

OEM Product Number: EMD 8355873

Special requirement products, including primerless technology, available upon request.

*Adhesion Primer Required

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