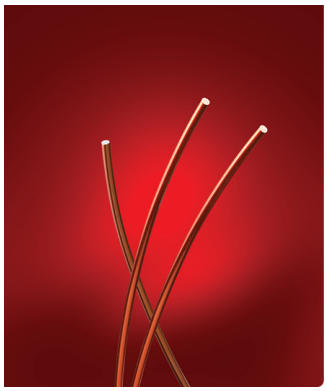

SUPER HYSLIK 200

Super Hyslik 200 includes a proprietary internal lubricating system to aid windability and insertion.

Rea Material Code: TAIH

Rea Insulation Code: 20

Insulation Material Description: Theic Modified Polyester overcoated with Polyamide-imide (AI)

Thermal Class: 200

Shape: Round

Conductor: Copper

NEMA Specification: MW 35-C,MW 73-C

IEC Specification: 60317-13

UL Number: E37683

MARKETS

Motors/Generators:
- General
- Comm & Ind
- Generator
- HVAC
- Residential

Transformers:
- Specialty Transformers

Automotive:
- General

TYPICAL APPLICATIONS

Dry-type transformers, hermetic motors, tool motors, automotive alternator stators, solenoids, high-voltage transformers, and torodial transformers

FEATURES AND BENEFITS

- Tough abrasion-resistant surface which withstands automated winding operations.
- Excellent dielectric performance.
- Superior chemical and moisture resistance, especially with refrigerants in hermetic applications.
- Superior thermal overload protection, especially during locked-rotor conditions.
- Superior performance in hermetics.

Basecoat

TYPICAL PROPERTIES

This data is typical of 18 AWG copper, heavy build insulation only. It is not intended to be used to create specification limits.

THERMAL

Thermal Endurance	
	>210°C

Thermoplastic Flow	minimum	typical
	300°C	350°C

Heat Shock (20% 3X)	
	20% 3x @ 220°C 20% 3x @ 240°C

Stress Relief Temperature	
	160°C

MECHANICAL

Mandrel Flexibility	minimum	typical
After Elongation	20% 3x OK	30% 1x OK
After Snap	3x OK	1x OK

Unilateral Scrape	minimum	typical
Avg. of 3 sides	1150 gms	1700 gms

Repeated Scrape	minimum	typical
700 gms	60 strokes	100 strokes

Dynamic C of F	minimum	typical
		0.0 4 6

ELECTRICAL

Dielectric Breakdown	
@RT	11 kV
@ 200° C	7 kV

High Voltage Continuity	
NEMA @ 1500 V DC	5 faults/100 ft max
Typical @ 2000 DC	0-1 faults/100 ft

CHEMICAL

High thermal endurance High temperature dielectric Resists thermoplastic flow Excellent adhesion and flexibility

Topcoat

Heat shock resistant Moisture resistant Surface toughness Chemical resistant

AVAILABILITY

Single
10.5-32 AWG
Heavy
10.5-32 AWG

Resistance to Solvents	
After 24 hrs @ RT	Xylene 50/50 Cellosolve/Xylene Perchloroethylene 1% NaOH 28% Sulfuric Acid Gasohol

Retained Dielectric	
72 hrs Exposure + 300°C Conditioning	3.5 kV