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UL 3616 - UL-AWM FILE NO. E174208

SILICONE HIGH VOLTAGE - HIGH CURRENT - RoHS Compliant

HIGH TEMPERATURE - APPLIANCE WIRE

OUTSTANDING FEATURES:

HIGH VOLTAGE 20 KVDC THRU 60 KVDC						HIGH FLEXIBILITY					
HIGH TEMPERATURE 150°C RATING						OZONE AND CORONA RESISTANT					
8 AWG THRU 2 AWG CONDUCTORS						MEETS VW -1 FLAME TEST					
CONDUCTOR SPECIFICATIONS			VOLTAGE RATINGS - NOMINAL DIAMETERS (Inches)								
SIZE	CONDUCTOR CONSTRUCTION	CONDUCTOR DIAMETER	20 KVDC	25 KVDC	30 KVDC	35 KVDC	40 KVDC	45 KVDC	50 KVDC	55 KVDC	60 KVDC
8.000	133/29	0.169	0.270	0.295	0.320	0.340	0.363	0.412	0.452	0.468	0.482
6.000	133/014	0.213	0.315	0.340	0.365	0.385	0.408	0.455	0.495	0.512	0.525
4.000	133/0177	0.269	0.375	0.395	0.420	0.440	0.463	0.513	0.552	0.568	0.582
2.000	133/0223	0.336	0.440	0.463	0.490	0.508	0.530	0.580	0.618	0.635	0.648
THE ABOVE LIST REPRESENTS STANDARD CONSTRUCTIONS FOR UL 3616											

WHEN ORDERING USE THE FOLLOWING EXAMPLE FOR PART NUMBER: WUT-4004-9

WUT	40	4	9 (WHITE)		
Base Part Number	Voltage Rating	Conductor Size	Color Per Dash #		
-0 BLACK	-1 BROWN	-3 ORANGE	-5 GREEN	-7 VIOLET	-9 WHITE
	-2 RED	-4 YELLOW	-6 BLUE	-8 GRAY	-10 NATURAL

TYPICAL APPLICATIONS FOR UL3616 WIRE INCLUDE THE FOLLOWING:

HEATERS	MOTORS	CORONA TREATING EQUIPMENT
FURNACES	GENERATORS	ELECTRONIC EQUIPMENT
Ovens	DRYERS	REQUIRING HIGH VOLTAGE & HIGH



Hubercarb® Q4
CALCIUM CARBONATE

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DESCRIPTION

A fine ground calcium carbonate produced at Huber's Quincy, Illinois plant which is known for its natural uniformity producing consistent purity and brightness. Carefully controlled particle distribution allows the material to be used in a wide range of applications including paints, coatings, adhesives, caulks, plastics, and construction building products.

TYPICAL PHYSICAL PROPERTIES

Median Particle Size (Cilas®, μ)	4.3
Brightness (Hunter reflectance)	88
Oil Absorption (lbs oil / 100lbs, ASTM D281)	17
Moisture (% , ASTM D280)	0.2
Water Demand (mL/100 gms)	54
Loose Bulk Density (lb/ft ³ , ASTM C110)	40
Compacted Bulk Density (lb/ft ³ , ASTM C110)	60
Acid Solubility (% in HCl)	98.5 - 99
Hegman Grind	6

PARTICLE SIZE (SCREEN) ANALYSIS

Mesh size	%
+325 (45μm)	0.005

TYPICAL CHEMICAL ANALYSIS

Calcium Carbonate	96.5
Magnesium Carbonate	2
Silica and Silicates	1
Other	0.5

MINERAL PROPERTIES

Color	Quincy, Illinois White
Alkalinity (as NaOH, ASTM D1208)	0.4 mg/gm
pH (ASTM D1208)	9.4 (saturated solution)
Hardness (Hand. Of Chem. & Phy)	3 Mohs, relatively non-abrasive
Solubility (Hand. Of Chem. & Phy)	0.0035 gm/100 mL H ₂ O at 100°C
Particle Shape (Microscope)	Irregular, uniaxial
Specific Gravity (ASTM D153)	2.7
Refractive Index (Hand. Of Chem. & Phy)	1.6
Weight per Gallon (s.g. x 8.345)	22.6 lbs/solid gallon
Linear Expansion Coefficient (Hand. Of Chem. & Phy)	4.3 x 10 ⁻⁶ /°C

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