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**PD-135 ALLOY**

**UNS No. C18135**



PD-135 Alloy is a heat-treatable copper alloy with a unique combination of properties; high-strength, conductivity, ductility and flex-life, along with a superior resistance to softening at elevated temperatures. The versatility of the alloy has led to a wide range of uses which include high strength aerospace conductors, cold-headed fasteners and electrical switch gear and contacts.

PRODUCT	SIZE RANGE (INCHES)	PACKAGE
ROUND WIRE	.0403 (#18 AWG) – .460 (4/0AWG)	COILS/REELS
ROUND ROD	.250 - 1.500	LENGTHS
RECTANGULAR WIRE	.125 – 3.500 WIDTH	COILS/REELS/LENGTHS

#### PACKAGING

Wire is available on the following reels, depending on size and temper.

TYPE	FLANGE DIA	TRAVERSE	ARBOR HOLE	DRUM DIAMETER	OVERALL WIDTH	CAPACITY (LB)
METAL	22	10 3/4	5	11	12 1/4	500
WOOD/METAL	22	10 3/4	5	11	12 1/4	500

ALL DIMENSIONS ARE IN INCHES

#### TEMPER

PD-135 Alloy can be supplied in either the aged or solution heat-treated/cold-worked condition. Minimum properties are:

TEMPER	SIZE (INCHES)	HARDNESS (R <sub>B</sub> )	TENSILE (KSI)	ELONGATION (% IN 2")	CONDUCTIVITY (% IACS)
UNAGED	.125 X 2	55	50	2	55 MAX
AGED	.125 X 2	72	60	2	85

#### SPECIFICATION

PD-135 Alloy is processed to meet the requirements of customer specifications