

Technical Data



SPECIALTY METAL PRODUCTS DIVISION

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ELECTRONIC WIRE PRODUCTS

AMETEK HAS IT ALL IN ELECTRONIC GRADE WIRE

AMETEK Specialty Metal Products Division now offers high quality electronic grade wire products. Our recent acquisition, with 45 years of experience, now gives us the competitive advantage of a modern plant offering state-of-the-art manufacturing, production expertise, engineering support and advanced metallurgical technology.

THE SHAPE YOU WANT

Round, square, rectangular or a custom shaped wire with close control on dimensional tolerances, tensile strength and surface.

ALLOYS YOU NEED

Common alloys are listed below. We supply alloys in all major wire materials including aluminum, stainless, copper and nickel.

QUALITY THAT'S CONSISTENT

Within a reel, within an order and from lot to lot because of documented process steps and control from raw material to your plant. We monitor critical wire attributes with SPC measurements and charts.

PACKAGING THAT PROTECTS

A variety of recyclable or disposable reels. Available layer level wound reels enable you to pay off wire at the speed and method best suited to your production environment. Protective paper used on all orders.

IMPROVEMENT THAT'S CONTINUOUS

AMETEK constantly upgrades processes and equipment to provide better products and control costs. TQM teams meet throughout our plant recommending change and improvement that begins at the operator level.

ELECTRONIC WIRE SPECIFICATIONS

UNS ALLOY	C26000	C51000	C72500	C72650	C72900
COMMON NAMES	70/30 Brass Cartridge	Grade A 5% Phosphor Bronze	Copper- Nickel- Tin	AM388 Spinodal Copper	Pfinodal Spinodal Copper
SPECIFICATIONS	ASTM B-134	ASTM B-159	ASTM B122	ASTM B740	ASTM B740
TYPICAL SIZE RANGES	Round: .010-.080". Square: .012-.070" Rectangle: .008 x .018" to .125 x .500"				
TOLERANCES	1/2 Commercial is available				
TENSILE STRENGTH:					
1/4 Hard	62-77 KSI	60-76 KSI	65-85 KSI	80-105 KSI	95-120 KSI
1/2 Hard	79-94	80-97	75-95	95-120	115-140
3/4 Hard	92-107	96-115	82-102	110-135	130-155
Hard	102-117	108-128	90-110	115-145	140-170
GRAIN SIZE	.015" Nominal in ready-to-finish size				
CORNER RADIUS	Per your specification. Normally .003" to .005" depending on wire size				
CAST	We can supply to your specification, normally 18" minimum				
CAMBER	3" offset maximum				
FINISH	Bright and clean. Ready for plating. Wire also available preplated with a variety of electroplated alloys				
PACKAGE WEIGHTS	30 - 1000 lb. reels are available				

*Spinodal alloys are heat treatable-Age hard tempers given, also available in mill hard tempers.

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