MATERIAL DATASHEET

CuNi 70/30

CuNi 70/30 is a copper nickel alloy that contains 70% copper and 30% nickel. This alloy is known for its moderate strength, workability, formability, and weldability. It offers excellent corrosion resistance, especially in marine saltwater environments. It is used in ship building, desalination plants, evaporator vessels, condenser tubes, and heat exchanger systems. It also maintains good mechanical properties over a wide temperature range and offers high ductility and toughness, even after prolonged service in harsh environments.

Its good thermal conductivity, resistance to hydrogen embrittlement, and immunity to chloride-induced stress corrosion cracking add to its versatility and long-term reliability.

ELEMENT	Cu	Ni	Mn	Si	Pb	Ti	Fe	P	S	Other
WEIGHT (%)	67.92	30.2	0.87	0.09	0.005	0.27	0.62	<0.01	<0.01	<0.15

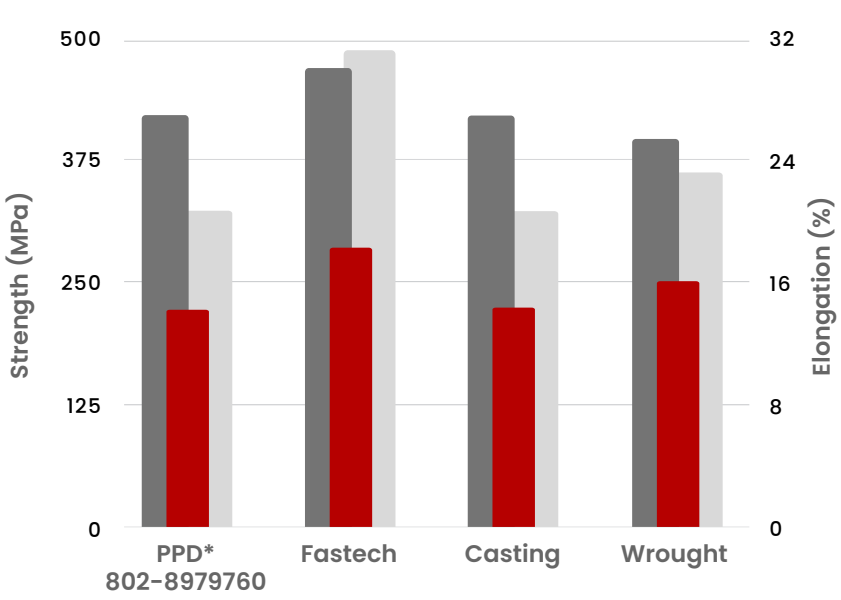
APPLICATIONS

Marine Piping Systems, Heat Exchangers and Condensers, Ship building, Offshore Oil and Gas Platforms, Power Plants, Industrial and Chemical Equipment

WIRE SPOOL DATA

WIRE DIAMETER	1.2mm/0.047"
SPOOL WEIGHT	15 kg/33 lb

MECHANICAL PROPERTIES



UTS (MPa)

YS (MPa)

Elongation (%)

*Navy Project Peculiar Document.

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