TECHNICAL DATA SHEET

parweld
WELDING THE FUTURE

XP CuNi30Mn

COPPER ALLOYS

CLASSIFICATIONS

EN ISO 24373	AWS A5.7
S Cu 7158 (CuNi30Mn1FeTi)	ERCuNi

KEY FEATURES AND APPLICATIONS

- Solid copper-nickel wire used for marine and desalination applications.
- Ideal for seawater corrosion-resistant CuZn alloys, it is also suitable for surfacing on highly stressed cast iron and unalloyed and low-alloy steels.
- Preheating is generally not necessary.
- Typically used for shipbuilding applications, seawater evaporation plants, tubes, pump building, offshore, desalting equipment and parts etc.

BASE MATERIALS

CW350H/2.0830, CW352H/2.0872, CW354H/2.0882, CW403J/2.0730, CW409J/2.0740, 2.0862, 2.0806, 2.0812, 2.0818, 2.0822, 2.0830, 2.0836, 2.0842, 2.0862, 2.0872, 2.0878, 2.0882, 2.0890, (Monel 67): Wrought and Cast Alloys of 70-30, 80-20 and 90-10 Copper Nickel Alloys, Monel Alloy 450, Nickel 200, CuNi5Fe, CuNi10Fe, CuNi20Fe (2.0878), CuNi30Fe (2.0882).

CHEMICAL COMPOSITION OF WIRE %

	Cu	Fe	Mn	Ni incl. Co	P	Pb	Si	Ti	S	Others
MIN	Bal.	0.40	-	29.0	-	-	-	0.20	-	0.50
MAX		0.70	1.0	32.0	0.02	0.02	0.25	0.50	0.01	

Single values are maximum values according to EN ISO 24373 unless otherwise stated

MECHANICAL PROPERTIES OF ALL-WELD METAL - TYPICAL VALUES

Tensile Strength (MPa)	Hardness (HB)	Melting Temperature
≥345	60 - 80	1180 - 1240°C

Test data for mechanical properties are not guaranteed since actual as welded conditions depend on numerous variables

OPERATING DATA

Shielding Gases	Polarity
EN ISO 14175 - I1, I3	DC-

PACKAGING AND AVAILABLE SIZES

Part Number	Diameter (mm)	Length (mm)	Weight (kg)	Packaging
XP40381	1.6	1000	5	PAP 20 Tube
XP40382	2.4	1000	5	PAP 20 Tube
XP40383	3.2	1000	5	PAP 20 Tube