UTP A 387	copper alloys
Classifications	solid wire

EN ISO 24373	AWS A5.7	Material-No.
S Cu 7158 (CuNi30Mn1FeTi)	ER CuNi	2.0837

## Characteristics and field of use

UTP A 387 is used for copper nickel alloys with up to 30 % nickel according to DIN 17664, such as CuNi20Fe (2.0878), CuNi30Fe (2.0882). Chemical industry, seawater desalination plants, ship building, offshore technique.

The weld metal of UTP A 387 is resistant to seawater and cavitation.

Typical analysis in %						
С	Mn	Ni	Cu	Ti	Fe	
< 0.05	0.8	30.0	balance	< 0.5	0.6	

Mechanical properties of the weld metal					
Yield strength $R_{p0.2}$	Tensile strength $R_m$	Elongation A <sub>5</sub>	Hardness	El. conduc- tivity	Melting range
MPa	MPa	%	НВ	s·m / mm²	$^{\circ}\mathcal{C}$
> 200	> 360	> 30	120	3	1180 – 1240

## **Welding instructions**

V-butt weld with 70 ° included angle and root gap of 2 mm. Remove oxide skin to approx. 10 mm to the joint groove also on the backside of the weld.

## **Approvals**

TÜV (No. 01624), GL

Form of delivery and recommended welding parameters				
Wire diameter [mm]	Current type	Shielding gas (EN ISO 14175)		
0.8*	DC (+)	11	13	
1.0*	DC (+)	11	13	
1.2	DC (+)	11	13	
1.6*	DC (+)	11	13	
*available on request				