

# CARBO S- CuNi 30 Fe

# CARBO T- CuNi 30 Fe

## International standards

	S = solid wire	T = bare rod
Material No.	2.0837	
DIN 1733	SG-CuNi30Fe	SG-CuNi30Fe
AWS A 5.6	ER CuNi	ER CuNi
EN 14640:2005	S Cu7158 (CuNi30)	S Cu7158 (CuNi30)

## Application notes

CuNi alloyed wire/rod for joining and surfacing similar alloys with a nickel content up to 30% and for different steels.  
Due to the resistance to sea water the alloy is suitable for offshore applications, ship building, chemical and food industry and oil refineries.

## Base materials

Copper-Nickel alloys up to 30 % Ni  
2.0872 CuNi10Fe    2.0878 CuNi20Fe    2.0882 CuNi30Fe  
2.0842 CuNi44    CuNi25

## Mechanical properties of all-weld-metal

(typical values)

Tensile strength R <sub>m</sub> N/mm <sup>2</sup>	Yielding strength R <sub>p0,2</sub> N/mm <sup>2</sup>	Elongation A <sub>5</sub> %	Impact energy (Av)
400	250	30%	100 J

## Weld metal analysis

(typical, wt. %)

Cu	Mn	Fe	Ti	Ni
Base	1	0,4	0,5	30

## Gas types EN 439

S = solid wire	T = bare rod
I1	I1

## Current

Diameter mm  
Welding amps (A) min.  
(A) max.

= +					= -				
0,8	1,0	1,2	1,6		1,6	2,0	2,4	3,2	4,0

## coils, weight

K300 15 kg.

10 kg./ carton

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