

## CARBO CuNi 30 Fe B

International standards	Material No.		2.0837				
	DIN 1733		EL-CuNi	30 Mn			
	AWS A 5.6		E CuNi				
Approvals							
Characteristics and typical applications	<b>CARBO CuNi 30 Fe B</b> is a copper-nickel electrode with a basic coating for joining and surfacing alloys of similar composition with up to 30% nickel as well as non-ferrous alloys and dissimilar steel grades. The deposit weld metal is highly resistant to seawater, typical applications include usage in shipbuilding, oil refineries, food processing industry, the engineering of general corrosion proof vessels and equipment.						
Base materials	<ul> <li>Cooper-nickel alloys up to 30% Ni content</li> <li>CuNi30Mn, CuNi30Mn1Fe, CuNi10Fe1Mn, CuNi20Fe, CuNi25, CuNi44Mn</li> <li>Material No. 2.0890, 2.0882, 2.0872, 2.0878, 2.0830, 2.0842</li> <li>Dissimilar joining nickel to copper-nickel alloys</li> </ul>						
						0, 2.084	2
Mechanical properties of all-weld metal ( typical values)			to coppe	r-nickel a			2
	- Dissimilar j Tensile strength	oining nicke 0,2% Yield strength	to coppe	r-nickel a ness I 3	alloys Elongatio		2
of all-weld metal	- Dissimilar j Tensile strength MPa	oining nicke 0,2% Yield strength MPa	to coppe Hardr	r-nickel a ness I 3	Elongatio A₅ %		2
of all-weld metal	- Dissimilar j Tensile strength MPa	oining nicke 0,2% Yield strength MPa ≥ 240	to coppe Hardr	r-nickel a ness I 3	Elongatio A₅ %		2 Ni
of all-weld metal ( typical values)	- Dissimilar j Tensile strength MPa ≥ 390	oining nicke 0,2% Yield strength MPa ≥ 240 n Si	to coppe Hardr HE 10	r-nickel a ness I 3 5	alloys Elongatio A₅ % ≥ 25	n	
of all-weld metal ( typical values) Weld metal analysis	- Dissimilar j Tensile strength MPa ≥ 390 C M	oining nicke 0,2% Yield strength MPa ≥ 240 n Si	to coppe Hardr HE 10	r-nickel a ness   I 5 P	alloys Elongatio A₅ % ≥ 25 Fe	Cu	Ni
of all-weld metal ( typical values) Weld metal analysis (typical, wt %)	- Dissimilar j Tensile strength MPa ≥ 390 C 0,015 1,8	oining nicke 0,2% Yield strength MPa ≥ 240 n Si	to coppe Hardr HE 10	r-nickel a ness   I 5 P	alloys Elongatio A₅ % ≥ 25 Fe	Cu	Ni
of all-weld metal ( typical values) Weld metal analysis (typical, wt %) Current	- Dissimilar j Tensile strength MPa ≥ 390 C 0,015 1,8 = +	oining nicke 0,2% Yield strength MPa ≥ 240 n Si 30 0,40	to coppe Hardr He 10 S 0,010	r-nickel a ness     3 5 5 P 0,015	alloys Elongatio A₅ % ≥ 25 Fe	Cu	Ni