

MONEL

Electrodes MMA [SMAW]

Cast iron

CLASSIFICATION:	APPROVALS:	APPLICATION:
EN ISO 1071-A : E C NiCu-B1 DIN 8573 : E NiCu BG 12 AWS A-5.15 : E NiCu-B	UDT	Hardfacing and repairing Metallurgy (Steelworks) Mining Shipbuilding&Offshore Agriculture Light construction and hobby

- Electrode for regeneration and cold welding of cast iron.
- Designed for DC+ polarization welding, which results in a very smooth and even melting of the electrode, smooth bead appearance with easily removable slag and soft and self-penetrating fusion into the regenerated element.
- The electrode does not overheat.
- High resistance to sea water.
- Weld is soft and highly malleable, suitable for hammering.
- The electrode does not contain harmful barium compounds, which makes it safe to the welder.
- Prior to regeneration, it is recommended to clean the element by thorough surface cleaning and degreasing.
- Due to the color, it is used to fill defects in new castings.

Application

Cast iron working in aggressive environments, e.g. brine, sea water, etc. Filling casting defects.

Base material

Gray cast iron		Malleable cast irons		Ductile irons	
DIN EN 1561	W.Nr	DIN EN 1563	W.Nr.	DIN EN 1563	W.Nr.
GG10	0.6010	GTS 35-10	0.8135	GGG40	0.7040
GG15	0.6015	GTS 45-06	0.8145	GGG50	0.7050
GG20	0.6020	GTS 55-04	0.8155	GGG60	0.7060
GG25	0.6025	GTS 65-02	0.8165	GGG70	0.7070
GG35	0.6035	GTS 70-02	0.8170	GGG80	0.7080
Other grades of cast iron	dissimilar connections	buffer layers			

Typical chemical composition %

Ni Cu Fe 62,0 30,0 6,00

Typical mechanical properties	pical mechanical properties	
Yield strength Re [N/mm2]	190	
Tensile strength Rm [N/mm2]	300	
Elongation A5 [%]	15	
Hardness	130-160 HB /	
Heat treatment	For thick elements light heating is recommended.	

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Welding p	ositions					
Redrying		200°C / 1 h				
Remarks		Preheating is not required for thin castings Thicker materials should be heated to 100-200[°C] Recommendations: Interpass temperature not higher than 100°C. Keep the welding current as low as possible. Cool as soon as possible in the open air. Start welding on the weld, avoid ignition on base material. Select an electrode with the smallest possible diameter. Use the lowest possible amperage.				
Remarks		heated to 100- higher than 10 soon as possibl on base materi	200[°C] Recommer 0°C. Keep the weld e in the open air. S al. Select an electr	ndations: Interpass ling current as low Start welding on th ode with the small	s temperature not as possible. Cool as e weld, avoid ignition	
	rameters and packing	heated to 100- higher than 10 soon as possibl on base materi	200[°C] Recommer 0°C. Keep the weld e in the open air. S al. Select an electr	ndations: Interpass ling current as low Start welding on th ode with the small	s temperature not as possible. Cool as e weld, avoid ignition	
	rameters and packing Length [mm]	heated to 100- higher than 10 soon as possibl on base materi	200[°C] Recommer 0°C. Keep the weld e in the open air. S al. Select an electr	ndations: Interpass ling current as low Start welding on th ode with the small	s temperature not as possible. Cool as e weld, avoid ignition	
Welding pa		heated to 100- higher than 100 soon as possibl on base materi diameter. Use to Welding	200[°C] Recommer 0°C. Keep the weld e in the open air. S al. Select an electr the lowest possible Weight of	ndations: Interpass ling current as low Start welding on th ode with the small a amperage. Weight of	temperature not as possible. Cool as e weld, avoid ignition est possible	
Welding pa	Length [mm]	heated to 100- higher than 100 soon as possibl on base materi diameter. Use to Welding current [A]	200[°C] Recommer 0°C. Keep the weld e in the open air. S al. Select an electr the lowest possible Weight of packet [kg]	ndations: Interpass ling current as low Start welding on th ode with the small amperage. Weight of carton [kg]	temperature not as possible. Cool as e weld, avoid ignition est possible Pcs/1 kg	
Welding pa ø 2,5	Length [mm] 300 /	heated to 100- higher than 100 soon as possibl on base materi diameter. Use to Welding current [A] 50-80	200[°C] Recommer 0°C. Keep the weld e in the open air. S al. Select an electr the lowest possible Weight of packet [kg] 1,6	Mations: Interpass ling current as low Start welding on th ode with the small amperage. Weight of carton [kg] 9,6	temperature not as possible. Cool as e weld, avoid ignition est possible Pcs/1 kg 56-57	

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