AS Pik-65





Coated Electrode for Cast Irons

Classification

EN ISO 1071: E C NiCu-B 3 AWS A5.15 : ENiCu-B DIN 8573 : E NiCu-BG 33

General Description

AS Pik-65 is a Ni-Cu alloyed monel cored electrode. It is used for the welding of all types of cast irons. It gives a minimum amount of spatter and a very stable arc. The slag is easy to remove. Heat effected zone is very narrow. Porosity free weld metal can be easily machined. Filler metal has the same color with that of the work piece.

Chemical Composition (w%), Typical, All Weld Metal

_	С	Si	Mn	Fe	Cu	Ni
	0.50	0.40	1.00	3	30	65

Mechanical Properties, Typical, All Weld Metal

Approvals

Yield Strength : 260 - 280 N/mm² : 400 - 420 N/mm² Tensile Strength Elongation (L=5d): 15 % : 140 - 160 HB Hardness

GOST, SEPRO, TSE

Applications and Materials to be Welded

AS Pik-65 is particularly used for the joining and build up welding of parts made from gray cast iron, nodular cast iron, malleable cast iron and of parts whose analysis is not known. Monel alloy core has 65 % Ni / 30 % Cu. It is an ideal electrode for the joining of cast iron pieces to monel alloys, stainless and ordinary steels. It can also be used for filling up cavities in castings, or cavities that might form after machining.

When welding cast iron without preheat, the smallest possible electrode diameter and the lowest possible welding current should be selected to limit the width of the heat effected zone that might occur due to excess heating. When welding thick pieces, a preheating to 100-200°C and slow cooling is recommended.

Gray Cast Iro	ons	Blackheart Mall	eable Cast Irons	Nodular (Spheroid) Cast Irons	
DIN EN 1561	W. Nr.	DIN EN 1562	W. Nr.	DIN EN 1563	W. Nr.
GG 10	0.6010	GTS 35-10	0.8135	GGG 40	0.7040
GG 15	0.6015	GTS 45-06	0.8145	GGG 50	0.7050
GG 20	0.6020	GTS 55-04	0.8155	GGG 60	0.7060
GG 25	0.6025	GTS 65-02	0.8165	GGG 70	0.7070
GG 35	0.6035	GTS 70-02	0.8170	GGG 80	0.7080

Welding Parameters / Packing and Diameter Informations / Welding Positions

Current Type and Polarity: AC min 50 V; DC (+)

Diameter [mm]	Length [mm]	Current [A]	Electrode Weight [g/100 pcs]	Box Weight [kg] Quantity [pcs/box]	Export Box Box Weight [kg]
2.50	300	65 - 90	1580	1.2 / 75	2.0
3.25	300	85 - 130	2650	1.1 / 45	2.0
4.00	400	110 - 160	5470	2.4 / 65	2.5







Liability: All information in this data sheet is based on the best available knowledge, is subject to change without notice and can only be considered as suitable for general guidance. Fumes: Consult information on Welding Safety Sheet, available upon request.