

INCONEL® Welding Electrode 152M

INCONEL Welding Electrode 152M is used for the shielded-metal-arc welding of INCONEL alloy 690, and the overlaying of carbon steels and stainless steels to provide a nickel-chromium alloy corrosion resistant surface. The high chromium level provides excellent resistance to stress corrosion cracking in the nuclear, pure water environment. The product can also be used in applications requiring resistance to oxidizing acids. It is useful for dissimilar joints involving INCONEL and INCOLOY alloys. This product contains Boron and Zirconium to minimize the tendency for ductility-dip cracking.

Specifications

AWS A5.11 ENiCrFe-7 (UNS W86152)
Other specifications to follow.

Approvals

Please confirm details of current scope of approvals with the Technical Department prior to order placement.

Limiting Chemical Composition	NiRemainder		Co0.12 max.
	C0.05 max.		Nb2.5 to 1.0
Mn5.0 max.		P0.03 max.	
Fe7.0 to 12.0		Zr0.02 max.	
S0.015 max.		B0.005 max.	
Si0.75 max.		Mo0.50 max.	
Cu0.50 max.		Others0.50 max.	
Cr28.0 to 31.5			

Minimum Mechanical Properties	Tensile Strength, psi		80,000
		MPa	552
	Elongation, (4d) %		30

Available Product Forms – Supplied in 10lbs (4.54kg) hermetically sealed containers

Diameter	mm in	2.4 3/32	3.2 1/8	4.0 5/32	4.8 3/16
Length	mm in	229 9	356 14	356 14	356 14
Current (DC+)	A	45-70	75-110	95-140	125-165