

AK ERNiCr-3

Description: ERNiCr-3 is used for MIG, TIG and SAW welding of base metals such as ASTM B163, B166, B167 and B168. It is also used for alloys which have UNS Number N06600. It is one of the most used nickel alloys whose applications range from cryogenic to high temperatures. This filler metal can also be used for dissimilar welding applications between various nickel alloys and stainless or carbon steels, as well as for overlaying.

Typical Chemical Composition(%):

	C	Si	Mn	S	P	Fe	Ni	Cr	Ti	Nb+Ta
Requirement	0.10	0.5	2.5-3.5	0.015	0.03	3.0	≥67.	18.0-22.0	0.75	2.0-3.0
Actual Result	0.06	0.65	0.45	0.008	0.009	5.52	Rem.	15.25	0.2	3.6

Typical Mechanical Properties:

	Tensile Strength (MPa)	Yield Stress (MPa)	Elongation (%)	Impact Values (J)
Requirement	—	—	—	
Actual Result	625	—	—	