

DESCRIPTION

Executive 99 is a nickel alloy designed for welding ductile, malleable and grey cast irons using TIG, MIG and SAW welding processes. This alloy is also used for dissimilar welding of cast irons to low alloy and carbon steels. The high alloy content of Executive 99 produces a machinable weld material in joining and build up applications. A preheat and interpass temperature of 350°F (175°C) minimum is recommended during welding.

Executive 99 filler metal is produced using high quality raw materials and tightly controlled chemistry to provide top quality, exceptionally clean wires that deliver the results fabricators demand.

APPLICATIONS & FEATURES

Used to join ordinary gray irons to themselves or to other ferrous and nonferrous materials and to reclaim or repair castings. May also be used on malleable or ductile iron. Should only be used in applications where maximum machinability of highly diluted filler metal is necessary.

This wire is extensively employed to repair gray iron castings

TYPICAL WIRE CHEMISTRY & MECHANICAL PROPERTIES

C	Mn	Fe	P	S	Si	Cu	Ni
0.04	0.16	0.05	<0.001	0.001	0.05	<0.01	99.6

Tensile Strength: 66,500 PSI Min **Yield Strength:** 36,000 PSI Min **Elongation:** 12%

TYPICAL WELDING PARAMETERS

Process	Diameter	Voltage	Amperage	Gas Flow	Shielding Gas / Flux
GMAW - Short	.035"	17-20	70-90	30 to 50 CFH	100% Ar
	.045"	19-22	75-160		75% Ar / 25% He
	- Spray	.045"	30-32		190-250
- Pulse	.045"	18-20	120-150		
GTAW	.093"	Direct Current; Electrode -		30 to 40 CFH	100% Ar
SAW	.062"	28-32	250-280		NiCr-W Flux
	.093"	28-33	275-350		
	.125"	29-34	350-450		

STANDARD PACKAGING

GMAW (MIG)	33-lb wire baskets	500-lb Drum
GTAW (TIG)	10-lb plastic tube	40-lb box
SAW	60-lb wire coil	
	60-lb Acro Pak	

CLASSIFICATION

AWS/SFA 5.14, Class **ERNi-CI**

