

## DESCRIPTION

EXECUTIVE 70S-3 is a high quality, general purpose welding wire widely used for GMAW and GTAW fabrication of mild steel material.

Executive ER70S-3 is designed to be the ultimate in trouble free welding performance with smooth feedability and excellent arc stability. The weld puddle of this wire is more fluid than ER70S-2, producing better wetting characteristics and a flatter bead.

While designed for use on clean plate Executive ER70S-3 has moderate levels of silicon and manganese deoxidizers will allow you to weld through light millscale.

## APPLICATIONS & FEATURES

Typical applications include automotive, structural steel, carbon steel pipe, and plate. Suitable shielding gases for GMAW applications using ER70S-3 wires include Argon/CO<sub>2</sub>, or Argon/O<sub>2</sub> with higher Argon content as well as 100% CO<sub>2</sub>.

## TYPICAL WIRE CHEMISTRY & MECHANICAL PROPERTIES

C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Sn	Al	N
0.07	0.6	1.21	0.01	0.008	0.50	0.15	0.02	0.15	0.004	0.004	0.002	.005
<b>Tensile Strength:</b>		82,600 PSI min		<b>Yield Strength:</b>		69,500 PSI min		<b>Elongation:</b>		33%		
<b>Charpy V-Notch:</b>		145 ft/lb at 32°F / 0°C										
		129 ft/lb at -4°F / -20°C										

## TYPICAL WELDING PARAMETERS

Process	Diameter	Voltage	Amperage	Speed (in/min)	Shielding Gas
GMAW - Short	.035"	18	80	100	Ar / CO <sub>2</sub> Blends Ar / O <sub>2</sub> Blends 100% CO <sub>2</sub>
		19	120	150	
		22	175	250	
	.045"	19	145	125	
		20	165	150	
		21	200	200	
- Spray	.035"	23	195	375	Ar / CO <sub>2</sub> Blends Ar / O <sub>2</sub> Blends
		29	230	500	
		30	275	600	
	.045"	27	285	350	
		30	335	475	
		30	340	500	
GTAW	.093"	Direct Current; Electrode -			100% Ar
	.125"				

## STANDARD PACKAGING

<b>GMAW (MIG)</b>	33-lb wire baskets	1,980-lb pallet
<b>GTAW (TIG)</b>	10-lb plastic tube	40-lb box

## CLASSIFICATION

AWS/SFA 5.18, Class **ER70S-3**

