

Classifications								
EN ISO 18274	AWS A5.14			Mat. No.				
S Ni 6052 (NiCr30Fe9)	ERNiCrFe-7			2.4642				
Characteristics and typical fields of application								
High resistance to stress corrosion cracking in oxidizing acids and water at high temperatures. Particularly suited for the conditions in nuclear fabrication. Useable for joining matching and similar steels, surfacing with low-alloy and stainless steels.								
Base materials								
2.4642 – Alloy 690 – UNS N06690 – NiCr29Fe								
Typical analysis of solid wire (wt.-%)								
	C	Si	Mn	Cr	Mo	Ni	Fe	Co
wt-%	0.03	0.3	0.3	29.0	0.1	Bal.	9.0	< 0.1
<b>Structure:</b> Austenite								
Mechanical properties of all-weld metal								
Heat-treatment	Yield strength R <sub>p0.2</sub>		Tensile strength R <sub>m</sub>		Elongation A (L <sub>0</sub> =5d <sub>0</sub> )		Impact work ISO-V KV J	
	MPa		MPa		%		+20 °C	
aw	350		600		35		80	
Operating data								
<b>Polarity:</b> DC ( + )		<b>Shielding gas:</b> (EN ISO 14175) I1, M12 (ArHeC-30/0,5)			<b>ø (mm)</b> 1.0 1.2		<b>Spool:</b> BS300 BS300	
Welding instruction								
Materials				Preheating		Postweld heat treatment		
Matching / similar metals				None		None		