

## Classifications

EN ISO 18274

S Ni 6052 (NiCr30Fe9)

AWS A5.14 / SFA-5.14

ERNiCrFe-7

## Characteristics and typical fields of application

Nickel-base TIG rod of S Ni 6052 (NiCr30Fe9) / ERNiCrFe-7 type for joining matching and similar steels, surfacing with low-alloy and stainless steels. Particularly suited for the conditions in nuclear fabrication. High resistance to stress corrosion cracking in oxidizing acids and water at high temperatures.

## Base materials

2.4642 NiCr29Fe

UNS N06690

Alloy 690

## Typical analysis

	C	Si	Mn	Cr	Ni	Mo	Co	Fe
wt.-%	0.02	0.2	0.3	29	Bal.	0.1	< 0.1	9.0

## Mechanical properties of all-weld metal - typical values (min. values)

Condition	Yield strength R <sub>p0.2</sub> MPa	Tensile strength R <sub>m</sub> MPa	Elongation A (L <sub>0</sub> =5d <sub>0</sub> ) %	Impact energy ISO-V KV J 20°C
u	380	600	35	100

u untreated, as-welded – shielding gas Ar

## Operating data

Polarity	DC-	Dimension mm	Current A	Voltage V
Shielding gas (EN ISO 14175)	I1	1.2 × 1000	60 – 80	9 – 11
Rod marking	Ni 6052 / ERNiCrFe-7	1.6 × 1000		
		2.0 × 1000		
		2.4 × 1000		

Heat input max. 1.0 kJ/mm, interpass temperature max. 100°C.

Creep rupture properties according to matching high temperature steels / alloys.

## Approvals

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