

# Lastek 979

## Outstanding corrosion resistance

### CLASSIFICATION

DIN 1736T1 : SG NiMo16Cr16W

AWS A5.14 : ER NiCrMo-4

### GENERAL DESCRIPTION

Lastek 979 has an excellent corrosion resistance to both oxidising and reducing media. The weld deposit is resistant to most aggressive chemical process environments where nothing else resists. Especially resistant to pitting, crevice and stress corrosion.

### APPLICATIONS

Welding of nickel base alloys like UNS N10276, DIN 2.4602.  
 Dissimilar welding between nickel base alloys and stainless or low-alloy steel.  
 Protection of steel surfaces against corrosion by "cladding" with Lastek 979.  
 Excellent resistance against chlorides and seawater.  
 Used in chemical processing, pollution control, industrial and municipal waste treatment, pulp and paper production and so on.

### CHEMICAL COMPOSITION (%) (Typical values, all weld metal)

<b>C</b> : < 0.01	<b>Cr</b> : 15.00 - 16.50	<b>Mo</b> : 15.00 - 17.00	<b>V</b> : 0.10 - 0.30	<b>W</b> : 3.00 - 4.50
<b>Mn</b> : < 1.00	<b>Si</b> : < 0.08	<b>Co</b> : < 2.50	<b>Fe</b> : 4.00 - 7.00	<b>Ni</b> : Balance

### MECHANICAL PROPERTIES (Typical values, all weld metal)

Yield Strength N/mm <sup>2</sup>	Tensile Strength N/mm <sup>2</sup>	Elongation 5d (%)	Impact Strength Charpy V notch (ISO-V)
	≥ 690 MPa		

### GENERAL INFORMATION

<b>Welding positions</b>	NA			
<b>Shielding gas</b>	Argon			
<b>Packing</b>	5 kg in a cardboard box			
<b>Polarity</b>	DC, with the torch on the negative pole.			
<b>Diameter (mm)</b>	1.6	2.0	2.4	3.2
<b>Length (mm)</b>	1000	1000	1000	1000

**Tips & tricks**

- The base metal has to be thoroughly cleaned before welding.
- Weld with the lowest possible heat input.
- Let the weld metal cool down between different layers.
- Use argon backing gas for the root pass in pipe welding.

*The information in this document is based on intensive tests and is accurate to the best of our knowledge. Do note that these values are only typical values for tests in accordance to prescribed standards. The suitability of the product should always be confirmed by qualification tests before use in any application. The information can be changed without previous notice.*