# OK Autrod 16.95

G 18 8 Mn

## **Description**

A continuous, solid, corrosion-resistant, chromium-nickel-manganese wire for welding austenitic stainless alloys of the 18% Cr, 8% Ni, 7% Mn types. OK Autrod 16.95 has general corrosion resistance similar to that of the corresponding parent metal. The higher silicon content improves the welding properties such as wetting. When used for joining dissimilar materials, the corrosion resistance is of secondary importance. The alloy is used in a wide range of applications across the industry, such as the joining of austenitic, manganese, work-hardenable steels, as well as armour plate and heat-resistant steels.

## Welding current

DC(+)

## **Classifications**

EN 12072	G 18 8 Mn
Werkstoffnummer	~1.4370

### Typical chemical composition, aw (%)

С	Si	Mn	Cr	Ni
<0.2	<1.2	6.5	18.5	8.5

#### Typical mech. properties all weld metal

Yield stress, MPa	450
Tensile strength, MPa	640
Elongation, %	41

#### **Charpy V**

Test temps,	°C
+20	

Impact values, J 130

#### **Approvals**

DB UDT Ü VdTÜV 43.039.10 DIN 8556 43.039/1

## Welding parameters

Diameter, mm	Wire feed, m/min	Welding current, A	Arc voltage, V	Deposition rate kg weld metal/hour
0.8	4.0-17	55-160	15-24	1.0-4.1
0.9	3.5-18	65-220	15-28	1.1-5.4
1.0	4.0-16	80-240	15-28	1.5-6.0
1.2	3.0-14	100-300	15-29	1.6-7.5
1.6	5.5-9	230-375	23-31	5.2-8.6