

# TALWELD NM253

## Comparable specifications

**ASTM:** UNS S30815  
**Material No.:** 1.4835  
**EN designation:** X9CrNiSiNce21-11-2

## Description and applications\*

\* Illustrative, not-exhaustive list

This filler wire is designed as an austenitic chromium-nickel steel alloyed with nitrogen and Rare Earth Metals (REM), which include cerium.

Cerium combined with silicon improves the oxidation resistance and erosion-corrosion resistance in oxidizing and neutral environments, whereas the nitrogen allows superior strength at high temperatures. Therefore, this filler wire shows excellent resistance to high temperatures (most suitable temperature range is 850 - 1100 °C), high creep strength, very good resistance to isothermal and, particularly, cyclic oxidation.

Not suitable for applications exposed to wet corrosion.

Prior to welding, it is recommended to carefully brush or ground black plates and previous weld beats.

## Weldable base materials\*

\* Illustrative, not-exhaustive list

1.4835 (Outokumpu 253 MA ®), 1.4818 (Outokumpu 153 MA ®)

## All-weld metal mech. properties\*

\* For reference only (typical) values

**Tensile strength (Rm):** ~ 680 N/mm<sup>2</sup>      **Yield Strength (Rp<sub>0.2</sub>):** ~ 440 N/mm<sup>2</sup>  
**Elongation:** ~ 38% (A<sub>5</sub>)      **Charpy-V Impact (R.T.):** ~ 130 J

## Chemical composition\*

\* For reference only values

C	Mn	Si	S	P	Ni	Cr	N	Ce
0.05	max	1.40	max	max	10.00	20.00	0.12	0.03
0.12	1.00	2.50	0.015	0.045	12.00	22.00	0.20	0.08

## Lot classification

Class S3 acc. to EN ISO 14344.

Diam.	15 kg Spool
0.9mm	NMM25309
1.2mm	NMM25312

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