



Basic coated stick electrode with high carbon content

## Classifications

 EN ISO 3581-A
 Material-No.

 E Z 25 35 Nb B 6 2
 1.4853

# Characteristics and typical fields of application

UTP 2535 Nb is suitable for joining and surfacing of heat resistant CrNi-cast steels (centrifugal- and mouldcast parts) of the same or of similar nature, such as

1.4848 G–X 40 CrNiSi 25 20 1.4852 G–X 40 NiCrSiNb 35 26 1.4857 G–X 40 NiCrSi 35 26

It is used for operating temperatures up to 1150° C in carburized low-sulphur combustion gas, e. g. reforming ovens in petrochemical plants.

## Typical analysis C Si Mn Cr Ni Nb Ti Fe wt.-% 0.4 1.0 1.5 25.0 35.0 1.2 0.1 bal.

# Mechanical properties of all-weld metal - typical values (min. values) Yield strength $R_{p0.2}$ Tensile strength $R_m$ Elongation A $(L_0=5d_0)$ MPa MPa % > 480 > 700 > 8

## Operating data



Polarity	DC +	Dimension mm	Current A
		$2.5 \times 300$	50 – 70
		$3.2 \times 350$	70 – 120
		4.0 × 400	100 – 140

Hold stick electrode vertically with a short arc and lowest heat input. String beads are welded. The interpass temperature of  $150^{\circ}$  C should not be exceeded. Redry stick electrodes for 2-3 hours at  $250-300^{\circ}$  C.

## **Approvals**

\_