

## 430NBT

### Comparable specifications

EN 10088-1: 1.4509 (X2CrTiNb18)  
Werkstoff Nr.: 1.4509

### Description and applications\*

\* *Illustrative, not-exhaustive list*

Ferritic stainless steel welding wire with low carbon content and 18% Cr, double stabilized with Nb and Ti.

Due to its stabilization, this grade is fully ferritic at all temperatures, therefore reducing formation of martensite. Low interstitial content has a beneficial effect on the mechanical and corrosion properties.

Outstanding feeding, welding and flow characteristics. Very good resistance to corrosion and thermal fatigue (typical resistance up to 900°C).

Mainly designed for welding and surfacing of exhaust systems in the automotive industry.

### Weldable base materials\*

\* *Illustrative, not-exhaustive list*

1.4509, 1.4016, 1.4511, AISI 430, AISI 441.

### All-weld metal mech. properties\*

\* *For reference only values*

Hardness (Brinell):  $\geq 130$  HBW

### Chemical composition\*

\* *For reference only values*

C	Mn	Si	S	P	Cr	Nb	Ti
max	max	max	max	max	17.50	(3xC)+0.30	0.10
0.03	1.00	1.00	0.015	0.040	18.50	1.00	0.60

### Standard packaging data\*

Welding process	Product type	Ø mm (inches)	Packing type	Weight kg (lbs)	Length mm (inches)
GMAW **	filler wire	0.80 - 1.20 (0.030 - 0.047)	spools BS300 / D300	15 (33)	n.a.
GTAW **	filler rod	1.60 - 4.00 (1/16 - 5/32)	cardboard boxes / tubes	5 (11)	1000 (39.4)

\* *Other sizes and packing types are available upon request*

\*\* *GMAW: gas metal arc welding; GTAW: gas tungsten arc welding*

### Marking

Each filler rod for GTAW welding is durably marked with an identification traceable to the unique product type. Welding filler materials wound on spools or in coils are durably marked on the coil or spool with an identification traceable to the unique product type. The outside of each unit package is suitably labelled with at minimum the following data: grade, diameter, heat, lot no., classifications.

Customized labels are available upon request.

### Lot classification

All our productions fulfil the **Class S3** requirements acc. to EN ISO 14344.