

## 430LNb

### Comparable specifications

EN ISO 14343-A: ~18 L Nb

EN ISO 14343-B: ~SS 430LNb

Werkstoff Nr.: ~1.4511

### Description and applications\*

\* Illustrative, not-exhaustive list

Ferritic stainless steel filler metal with low carbon content and stabilised with niobium. Improved intergranular corrosion resistance and good temperature resistance.

This grade is developed and designed for the Automotive industry, for production of exhaust systems. In particular, it may be used for:

- welding similar ferritic stainless steels;
- welding of heterogeneous assemblies including carbon steel and austenitic stainless steel base metals;
- applications where there is a need for good resistance to corrosion and thermal fatigue.

### Weldable base materials\*

\* Illustrative, not-exhaustive list

1.4512, 1.4510, 1.4526, 1.4509, carbon steel (e.g. Fe 37), austenitic stainless steels (e.g. AISI 304).

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

\* For reference only values

Tensile strength (Rm):  $\geq 410 \text{ N/mm}^2$  Yield Strength (Rp<sub>0.2</sub>):  $\geq 220 \text{ N/mm}^2$

Elongation:  $\geq 15\%$

### Chemical composition\*

\* For reference only values

C	Mn	Si	S	P	Ni	Cr	Mo	Cu	N	Nb
max	max	0.70	max	max	max	17.00	max	max	max	0.05 + 7(C+N)
0.02	0.60	0.95	0.020	0.030	0.50	18.30	0.50	0.50	0.02	0.5

### 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.