

430

Comparable specifications

ASME SFA A 5.9: ER430
EN ISO 14343-A: 17
Werkstoff Nr.: 1.4015

Description and applications*

* *Illustrative, not-exhaustive list*

Ferritic stainless steel filler metal which offers good ductility in heat treated conditions. Its composition is balanced by providing sufficient chromium to give adequate corrosion resistance for the usual applications.

Welding with this filler metal usually requires preheating and postweld heat treatment.

Optimum mechanical properties and corrosion resistance are obtained only when the weldment is heat treated following the welding operation.

This grade may be mainly used for:

- welding of similar ferritic stainless steels;
- overlays and thermal spraying.
- applications where maximum corrosion resistance at temperatures up to 850°C is required.

Weldable base materials*

* *Illustrative, not-exhaustive list*

Ferritic type 430 stainless steels.

All-weld metal mech. properties*

* *For reference only values*

Tensile strength (Rm): $\geq 450 \text{ N/mm}^2$ Yield Strength (Rp_{0.2}): $\geq 300 \text{ N/mm}^2$
Elongation: $\geq 15\%$

Chemical composition*

* *For reference only values*

C	Mn	Si	S	P	Ni	Cr	Mo	Cu
max	max	max	max	max	max	16.50	max	max
0.08	0.60	0.50	0.020	0.030	0.50	18.00	0.50	0.50

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.