Solid Wire Electrode for MIG/MAG Welding

BA-TIG 430

Classification: EN ISO 14343-A: **W 17**
SFA-5.9: **ER430**

Main Application:
BA-TIG 430 is a solid wire rod for GTAW, suitable for welding ferritic and martensitic chromium steels with 15 -17%Cr, AISI 430. Also suitable for surfacing gas valves, water valves, steam valves and fittings. Service temperatures up to +450 °C. Scaling resistant up to +950 °C.

Typical analysis and chemical composition acc. to EN ISO 14343-A and AWS A5.9: (Weight Percent)

Wire electrode	C	Si	Mn	Mo	Ni	Cr	P	S	Cu total
Typical analysis BA-TIG 430	0.04	0.35	0.5	0.1	0.1	16.5	0.015	0.015	0.15
W 17 acc. to ISO 14343-A	0.12	1.0	1.0	0.3	0.3	16.0-19.0	0.03	0.02	0.3
ER430 acc. to AWS A5.9	0.10	0.5	0.6	0.75	0.6	15.5-17.0	0.03	0.03	0.75

All - Weld Metal Mechanical Properties / Welding Data:

Heat Treatment	PWHT: 770°C x 2h
Yield Strength Re, N/mm² (ksi)	≥ 350 (51)
Tensile Strength Rm, N/mm² (ksi)	≥ 470 (68)
Elongation A5 [%]	≥ 15
Impact Energy ISO-V, J (ft lbs)	+20°C: 27 (19)
Current/polarity	DC -
Shielding Gas	ISO 14175: I1

Base Materials:
Surfacing: unalloyed and low-alloyed steels.
Joining: corrosion resistant Cr-steels as well as other similar-alloyed steels with C-content up to 0.20 %.
1.4510 X3CrTi17, AISI 430Ti; AISI 431

Package Forms:
5 kg carton boxes as standard package form for GTAW wire rods.

Diameter:
1,6 – 2,4 mm. Sizes and tolerances acc. to ISO 544 and AWS A5.9.

Wire Rod Surface:
Smooth finish free from surface defects and foreign matter.