

TBW brazing range

for optimized brazing operations



- ✓ Designer, manufacturer, supplier and distributor of filler metals
- ✓ A comprehensive range of high-quality welding and brazing filler metals
- ✓ Specialist in technical markets

More information on selectarc.com

EDITION 2



TBW TECHNOLOGY

Selectarc is the French manufacturer of welding and brazing filler metals, based in the Bourgogne-Franche-Comté region.

As a leading industrial player, the company relies on expert R&D teams and two production sites dedicated to welding and brazing.

Selectarc's brazing foundry, dedicated to brazing alloys and unique in France, draws on fully integrated industrial expertise:

- Alloy formulation design
- Continuous casting
- Extrusion
- Drawing
- Custom processing services

Full control over every stage of production (from raw material sourcing to the finished product) ensures complete traceability and consistent quality for our brazing products.

Inventor of copper-phosphorus alloys in 1948, Selectarc has continuously supported the evolution of industrial processes through high-performance solutions, driven by a culture of innovation deeply rooted in its DNA.

It is within this philosophy that **the patented TBW (Tubular Brazing Wire) technology was developed**, a proven brazing solution successfully used for many years and now recognized for its performance, reliability, and ease of use in demanding industrial environments.

TBW (Tubular Brazing Wire) technology represents a major breakthrough in the brazing industry. This 2-in-1 solution is based on the **encapsulation of brazing flux within a seamless extruded tube**, ensuring flux integrity, perfectly controlled wetting, and optimal stability of the brazing bath.



TBW RANGE FEATURES

The TBW (Tubular Brazing Wire) range stands out through its exclusive design, combining metallurgical performance, process control, and ease of use.

Its main features include:

2-in-1 product

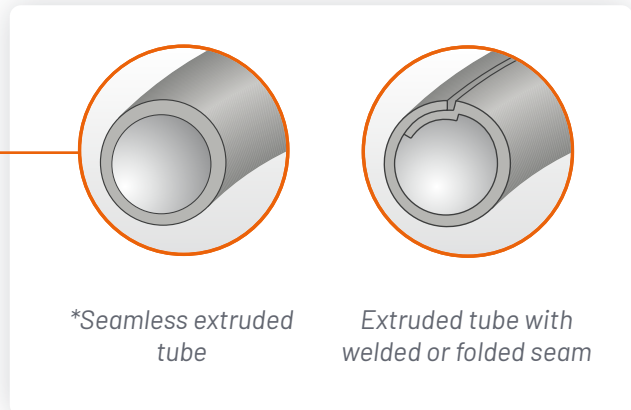
- Seamless extruded tube*
- Integrated flux

Ease of use

- Optimized consumption of brazing alloy and flux
- Improved visibility during the brazing operation
- No formation of solid brazing flux residues
- Reduced and easier post-brazing cleaning

Operator safety

- No direct contact with the flux
- Reduced fume emissions
- No spatter



Wide range of applications

- HVAC, plumbing and sanitary systems
- Renewable energy
- Transformers
- Electric motors



Rods



Spools



Rings

TBW brazing alloys are available in various formats:

- Standard diameters: 1.0 mm – 2.5 mm
- Rods: 250g plastic tubes, 1 kg, 5 kg blister packs
- D300 spools: 5 kg (+/-0.5 kg)
- Rings: bags of 1,000 pieces
- Other packaging options available upon request

PRODUCT RANGE

Available references

Alloys	Ref.	Designation	NF EN ISO 17672 classification	AWS A5.8 standard	Melting range	Nb of pieces / kg (Ø 2mm)	Product benefits
Silver	5034T	TBW 5034	Ag 134 Si	-	630°C – 730°C	100	• Excellent mechanical properties
	5038T	TBW 5038	Ag 138 Si	B Ag-34	650°C – 720°C	98	• Very good capillary action • Very good elongation
	5040T	TBW 5040	Ag 140 Si	B Ag-28	650°C – 710°C	105	• Excellent appearance of brazed joints
	5045T	TBW 5045	Ag 145 Si	B Ag-36	640°C – 680°C	100	• Good wetting properties • Suitable for dissimilar metal assemblies
	5056T	TBW 5056	Ag 156 Si	B Ag-7	620°C – 655°C	99	• Good corrosion resistance
Aluminium	NC12T	HARASIL NC 12 TBW	Al 112	-	575°C – 585°C	253	• Good capillary action • Good fluidity
	ZINAL4T	ZINAL 4 TBW	DIN 1707-100 : S-Zn 98 Al 2		382°C – 420°C	113	• Good ductility • Non-corrosive flux

Advice, technical support and R&D

Selectarc supports its customers far beyond the product itself through recognized technical expertise delivered within an **ISO 9001 certified** framework. Our teams of engineers and metallurgists are involved from the earliest stages of projects to advise and guide the selection of the most suitable materials and brazing solutions for each application and industrial constraint.

In addition, the **R&D department** carries out product trials, metallurgical testing and process validations according to customer specifications. This tailor-made technical support ensures reliable, high-performance solutions that are fully integrated into production processes.



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