fontargen brazing by voestalpine

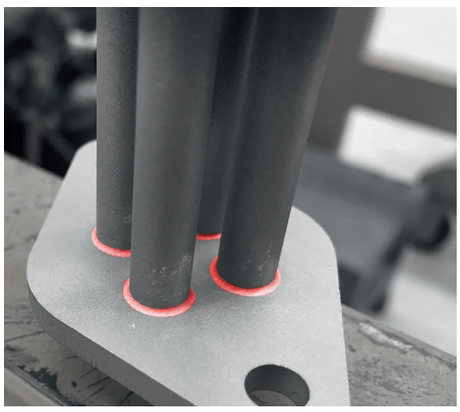
In-Depth Know-How

FONTARGEN A 101

HIGH STRENGTH BRAZING ALLOY

Fontargen A 101 is a copper-zinc-nickel brazing filler metal of high strength and good fluidity. Suitable for brazing of steel, cast iron malleable cast iron, nickel and nickel alloys. Also suitable for brazing and hardening in one production step. It´s very often used in the steel furniture and tubing industry.

Product features	Product benefits	User benefits
» High tensile strength	» Suitable for parts subject to dynamic forces	» Perfect for steel to steel applications
» Good matching color with brass	» Good visual aspect after brazing	» Identical coloring with brass
» High service temperature	» No loss of strength at high temperatures (until 572°F)	» Possible usage on parts serviced at higher temperature
» Small melting range	» Good flow properties	» Good capillarity effect, high quality of the joining » Fast brazing process



Typical applications

» Furniture and tubing industry
» Bicycle industry
» Global repairs (machinery, handicraft)

Mainly used for

» Parts subject to diverse dynamics forces: (vibrations, dilatation, etc...)
» Parts where coloring matching with brass is important

073/2018/EN/GL

FONTARGEN A 101

Classification			
AWS A5.8	**EN ISO 17672**	**EN 1044**	**DIN 8513**
RBCuZn-D	Cu773	CU305	L-CuNi10Zn42

Typical chemical composition, wt. %						
Cu	**Sn**	**Zn**	**Si**	**Ni**	**Fe**	**Mn**
48	< 0.2	Bal.	0.25	9.5	0.2	0.2

Mechanical properties					
Working Temperature	**Melting Range**	**Specific weight**	**Elongation**	**Operating service temperatures of the joint**	**Max. service temperatures of the joint**
1670°F	1634°F/1688°F	8.7 g/cm^3	15-20%	-328°F/+572°F	572°F

Base materials
Steel, cast iron, malleable cast iron, nickel, nickel alloys

Heat sources
Open flame, Induction, Resistance

Flux
FH 21 acc. to EN 1045 => F100 Series of Fontargen

Art. Nr.	Form	Dimensions (inch)	Packaging
81711	Rods	1/36 x 20	5 kg box

voestalpine Böhler Welding
www.voestalpine.com/welding

voestalpine
ONE STEP AHEAD.