fontargen brazing by voestalpine

In-Depth Know-How

BRAZING SOLUTIONS FOR CAR ENGINE PRODUCTION

In-Depth Know-How – As a leading brand of soldering and brazing consumables, Fontargen Brazing offers proven solutions based on 50 years of industrial experience, tried and tested processes and methods. This In-Depth Know-How has made Fontargen Brazing an internationally preferred partner for every soldering and brazing task.

voestalpine Böhler Welding
www.voestalpine.com/welding

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ONE STEP AHEAD.

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JOINING COMPETENCE

Copper and nickel-based brazing pastes for brazing applications in the automotive industry

Take advantage of technical proven and customised products

Europe, Asian as well as North, Central and South America are the main markets for brazing. As a competent partner for brazing applications voestalpine Böhler Welding take care for customers from the automotive industry. The following Industry trends flow into product selection and development:

- High-pressure direct fuel systems
- Emission-reducing components with a high efficiency and economical fuel consumption in car engines
- New EGR/AGR cooler systems for the reduction of emissions
- Torque converter for modern transmissions
- Soft solder and brazing pastes for battery and thermal-management components of electrical vehicles

Our mission

voestalpine Böhler Welding is present worldwide taking part in numerous R&D projects and working closely together with OEMs in the automobile industry. Following our "customer first" philosophy, we are glad to share our knowledge and offer technical support in terms of brazing technology and process optimization. We technically accompany our customers and find solutions together.

Those solutions include the appropriate choice of brazing filler metal, design and brazing process. We help maintain a high technical level of your brazing personal, offering technical meetings and trainings.

As an example of development with one of our customers (one of the global big three Tier 1 automotive supplier), we can point out the brazing paste AP 21 CLP CS approved for brazing their high-pressure fuel rails for the injection systems.

	Fontargen Designation	Standards			Melting Range		Recom. Brazing Temperature		Characteristics	Typical Application
		ISO 17672	ISO 3677	AWS 5.8	°C	°F	°C	°F		
Cu Alloys	AP - CI Series	Cu 141/ Cu 099	B-Cu100(P)-1083 B-Cu99-1083	BCU-1 Bcu-1a	1083	1981	1100-1150	2000-2100	high fluidity, hydrogen and nitrogen furnace brazing, induction brazing; vacuum brazing, high and low metal contend, slow or fast drying	alloyed steel tube constructions and high/low pressure injection rails, induction brazing of gasoline pipes, torque converter
	AP - AL Series	Cu 110	B-Cu100-1083	B-Cu1b	1083	1981	1100-1150	2000-2100	use in coal athmospare, Cu - Oxide containing, flux containing and wide gap brazing paste possible; slow or fast drying; medium fluidly	unalloyed and alloyed steel; constructions; tungsten carbide
	AP- GL series		B-CuSn-968/1060		960-1060	1760-1940	1060-1100	1940-2012	use in coal atmosphere, low or fast drying; good gap filling; low working temperature	toque converter, brazing sintered parts to steel
Nickel Base Alloys	HTL -2 Series	Ni 620	B-Ni82CrSiBFe-970/1000	BNi-2	970-1000	1780-1830	1010-1170	1850-2140	vacuum and shielding gas furnace brazing; induction brazing; screen printing; low or fast drying	low temperature catalysts; EGR cooler
	HTL-5M		B-Ni72CrSiP-971/1051		971-1051	1779-1923	1060	1940	vacuum or shielding gas furnace brazing; low or fast drying	low pressure EGR Cooler; fluid transport
	HTL-5CR		B-Ni61CrSiP-1070/1090		1070-1090	1958-1994	1100	2000	vacuum or shielding gas furnace brazing; low or fast drying, high corrosion resistance	high temperature EGR Cooler, high temperature catalysts
	HTL-7	Ni-710		BNi-7	890	1630	927-1093	1700-2000	high fluidity, Boron free	thin wall tube constructions

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