

Chemical products



Chemical products are required for all soft soldering and brazing procedures. They are integrated into the filler metal in products such as solder pastes and creams, preforms and cored wires.

Otherwise, an external liquid, gel or powder flux must be used. The choice of flux depends on the characteristics of the parts being assembled, the filler metal and the heating method.

They are used in all applications requiring use of an external flux such as building, heat exchangers and all mechanical or electrical assemblies.

They complete the METACONCEPT Group's range of ingots, bars, flat bars, sticks, blowpipes, solid wires and laminates.

Characteristics

Our fluxes have been specially designed for all soldering procedures.

They are highly effective in pickling the surfaces to be brazed and thus ensure high solidity of the joint.

They have been developed to meet current environmental regulations.

Flux storage: At room temperature, in its original sealed packaging.

Storage period: 12 months.

We can offer different types of packaging in accordance with the type of flux and the intended use. [Our technical department](#) will be happy to assist you in choosing the most suitable product and its packaging.

Designation	Comments	Bases
Flux ALPHA A83	Liquid rosin-based foam flux. Very good wettability and excellent capillarity. Meets the various requirements of static bath tinning processes. The ALPHA A83 flux corresponds to the CA type of standard NF-C-90550.	Suitable for copper, nickel, brass and silver.
Diluent ALPHA 425	The high temperature around flux baths inevitably leads to the evaporation of the alcohol contained within the fluxes. To maintain the initial dilution, it is advisable to add diluents regularly. You can use a hydrometer to correctly measure the product.	Together with the ALPHA A83 flux.
Flux ALPHA SLS 65	No-clean organic flux, specially designed for wave and screen printing mask applications. No cleaning is required after brazing.	Suitable for copper, nickel, brass and silver.
Flux WBF320S	Mixed organic flux(water-alcohol) no VOCs, low solids, no-clean.	Suitable for copper, nickel and brass.
Flux RADSOL T208C	Water-based flux, non-corrosive residues. This flux was first developed for dip brazing, but it can also be applied with a brush provided that its flammability is taken into account.	It is suitable for treating copper, brass, bronze, tinned or brazed steels, nickel and most of its alloys, and gold and silver.
Flux RADSOL 701	Water-based flux, non-corrosive residues, residues can be cleaned away with water. Developed for manual brazing and dip brazing. Excellent wettability, good penetration of the joints. It can be diluted with water depending on its final use.	It is suitable for treating copper, brass, bronze, tinned or brazed steels, nickel and most of its alloys, and gold and silver.
Flux RADSOL 2101	Water-based flux, non-corrosive residues, cleaning with water after brazing. This flux was initially developed for dip brazing radiators and heat exchangers (baking radiators and brazing their collectors). It may be diluted with water depending on its final use.	It is suitable for treating copper, brass, bronze, tinned or brazed steels, nickel and most of its alloys.
Flux META 2005	Aqueous zinc chloride-based flux, corrosive residues. The parts must be cleaned after brazing. Developed for manual brazing or dip brazing.	Especially suited to copper and its alloys.
Flux META 2010	Organic non-corrosive flux, high deoxidising power. The parts stay as they are after brazing. Furnace, dip or flame brazing.	Suitable for copper, brass and zinc.
Decarboniser DECACLINE-S	Organo-mineral acid blend, for the preparation of the metal's surface. Soak the part in the DECACLINE-S bath for several minutes (10 minutes if the product is pure, 20 minutes if the product is 50% diluted with water).	Suitable for tin-lead alloys, copper and its alloys.
Flux ALUFLUX	Organic reactive flux, slightly pasty, non-corrosive residues. This flux removes the oxide film and allows the solder to tin-plate the metal base before the oxide film forms. The ideal heating temperature for obtaining a good soldered joint is 300°. Residues must be removed with hot water. Indispensable with OTALINE solder	Suitable for soldering aluminium and its alloys.
Flux FRY SOL 60	Zinc chloride-based flux, corrosive residues, clean with hot water + citric acid if necessary, then rinse with fresh water. Apply with a brush, sprayer or via dipping. To remove the oxide film and to improve the adhesion of the solder to the surface of the steel, it is advisable to add acid.	Suitable for stainless steel and steel, with tin/lead solder, min 60% Sn.
Deoxidising tablets LF	Pure tin tablets with an added deoxidising agent (lead-free). Reduces the oxidation of the bath's surface and makes the oxide layer non-elastic. Suitable for tinning baths or crucibles and wave soldering machines.	NC
Deoxidising powder T010	Non-toxic, non-corrosive. A powder which removes the oxide film that forms on the bath's surface, thus maintaining the purity and fluidity of the alloy.	NC
Flux ZN11	Zinc chloride-based soldering fluid, corrosive residues. Removal of residues with hot water + citric acid. Use a brush or cloth to apply it to the parts to be assembled which must be heated with a soldering iron or a blow torch.	Recommended for assembling zinc sheets, guttering and pipes. Also effective for soldering zinc-titanium, galvanised sheets and copper.
Flux PC1 250 ml bottle with brush	Zinc chloride-based soldering fluid, enables the formation of excellent soldered joints thanks to the chemical agents which guarantee very good wettability. Apply with a brush or cloth.	Recommended for all metals except stainless steel and aluminium.
Ammonia stone 160 g	A pickle for cleaning soldering bits. Simply rub the soldering bit with the stone.	NC
Cream POWERFLOW 100 g pot	Smooth, water-soluble, ecological cream, specially designed for the creation of real metallurgical joints on copper, brass and tin-based alloy installations. No prior cleaning is required.	Suitable for copper and its alloys, brass, tin and its alloys.

Applications

Designation	Applications	Designation	Applications
Flux ALPHA A83	Electronics, connectivity and tinning cables	Flux META 2005	Heat exchangers and industrial applications
Diluent ALPHA 425	Electronics and electrics	Flux META 2010	Heat exchangers and industrial applications
Flux ALPHA SLS 65	Electronics, connectivity and tinning cables	Decarboniser DECACLINE-S	Heat exchangers and industrial applications
Flux WBF320S	Electronics, connectivity and tinning cables	Flux ALUFLUX	Aluminium and its alloys
Flux RADSOL T208C	Connectivity and tinning cables, mechanical applications	Flux FRY SOL 60	Gutters and stainless steel elements, industrial applications
Flux RADSOL 701	Heat exchangers, connectivity, tinning cables and industrial applications	Flux PC1 250 ml bottle with brush	Building, zinc metal work and accessories, industrial applications
Flux RADSOL 2101	Original heat exchangers	Cream POWERFLOW 100 g pot	Building, arts and crafts, stained glass
Deoxidising tablets LF	For cleaning solder or wave baths	Flux ZN11	Zinc metal work and accessories
Deoxidising powder T010	For cleaning solder or wave baths	Ammonia stone 160 g	For cleaning soldering bits

Implementation

The product safety information sheet below is available upon request from the METACONCEPT Group.

It is essential to use a brazing flux when assembling parts using a tin-based filler metal. It must be evenly applied to the parts being assembled via dipping in a bath, spraying or with a brush.

The brazing procedure must begin as soon as the flux has been applied to prevent the flux from evaporating. Although the flux has a pickling function, it is highly recommended to clean and degrease the parts before application. What's more, you should use a flux that is compatible with the melting temperature of the filler metal.

Precautions for use

To prevent burns caused by the molten metal, it is advisable to wear a protective apron, shoes, gloves, helmet and glasses.

Do not smoke at the workstation.

The workstation must be well ventilated.

Wash your hands when leaving the workstation.

Comments:

Always use a flux suited to the intended use. [Contact our technical department](#) to ascertain which product is most suited to your application.

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