ACE ENTERPRISES

BRAZING FLUX BINDER SOLUTION

Premium PVA-based binder that turns dry brazing flux powder into a stable, easy-to-apply paste for induction, torch, furnace and automated brazing.

Better flux paste. Better brazed joints.
Premium formulation for induction brazing excellence.

1. Why the right flux binder matters

In induction brazing, the binder decides how your flux paste behaves

ACE Brazing Flux Binder Solution is a specially engineered polymeric binder system based on a proprietary blend of polyvinyl alcohol (PVA) polymers, rheology modifiers, wetting agents and stabilising additives. It is made to give superior flux adhesion, paste stability and controlled burn-off.

Brazing basics	What you need to know
Role of flux	In induction brazing, flux dissolves oxides, forms an anti-oxidation barrier and lowers surface tension to improve wetting. It is essential for high-quality joints in cookware and industrial component assembly
What a flux binder is	Flux is a fine dry powder, converted into a smooth, homogeneous paste with a liquid carrier called a flux binder solution. It holds flux particles together so the paste can be applied by brush, dispenser or automated equipment
Why the binder choice matters	Solvent choice in flux paste preparation is process-critical. The solvent must wet, bind and evaporate precisely as the flux system was designed to. It is not a minor formulation detail

Common quality issues from the wrong flux binder (pans and pots induction brazing)

1. Hydrolysis or degradation of flux salts
2. Poor or slow wetting, inconsistent binding of paste on the metal surface
3. Pre-braze corrosion or rust staining
4. Microbial growth and reduced shelf life of the paste
5. Leak failures at the brazed joint and higher rejection rates
6. Weak or inconsistent joints (low pull and shear strength), porosity
7. Flux residue that will not clean off
8. Blistering or surface pitting

Bottom line: most of these issues trace back to one root cause: the wrong solvent choice in flux paste preparation.

2. How we help you

A binder engineered for stable, repeatable flux paste

What the binder does	How it helps your line
Stays at the joint	Holds the flux on vertical and irregular surfaces during induction brazing, and does not blow away or settle unevenly in the coil airflow
Stable paste	Prevents settling and separation of flux components during storage and application
Clean burn-off	Burns off cleanly on heating and leaves no harmful residues
Repeatable process	Improves repeatability of oxide removal, wetting and viscosity control
Oxide removal and protection	Helps break down surface oxides on base metal and filler metal, and shields the joint from re-oxidation as it heats
Better capillary flow	Promotes wetting and capillary flow of the molten filler alloy into the joint gap
Less wastage	Reduces flux wastage and material cost

1 : 1
binder to flux powder, by weight

Recommended mixing

Mix ACE Flux Binder Solution with flux powder at about 1:1 by weight, depending on the application. Adjust the consistency as required for optimal flow and adhesion, including for automated dispensing systems.

3. Your benefits of working with us

Cleaner joints, fewer rejections and steadier production

Your benefit	What you get
Superior adhesion	Superior flux adhesion and paste stability throughout the brazing cycle
Clean joints	Controlled burn-off with no harmful residues
Precise application	Consistent viscosity for application by brush, dispenser or automated equipment
Less scrap and rework	Reduces scrap, rework and material wastage in high-volume production
Fewer joint problems	Helps avoid leak failures, weak joints, porosity and flux residue that will not clean off

Works with your brazing process

Induction brazing	Torch brazing	Furnace brazing	Automated brazing
Cookware and industrial components	Flux paste for torch operations	Flux paste for furnace operations	Paste applied by dispenser or automated equipment

Available pack sizes

35 litre HDPE carboy

210 litre HDPE / M.S. drum

Custom packaging on request. Contact us for bulk order pricing and delivery options. TDS and MSDS available on request.

Trusted by leading companies

Hawkins Cookers Ltd., Aniket Metals Pvt. Ltd., Bhavya International, Global Industries, Sohil Impex, Pragati Metal Works, M.G. Kitchenware, Matushree Industries, Motley Appliances and many more.

About ACE Enterprises: a manufacturer of high-performance brazing consumables. Our Brazing Flux Binder Solution is engineered to transform dry brazing flux powders into highly stable, easy-to-apply flux pastes.

Get consistent flux paste on every brazing shift

Ask for a sample and technical data

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