



BTETM

BRAZING TECHNOLOGIES EUROPE

PRODUCT CATALOGUE

**INNOVATIVE
BRAZING
SOLUTIONS**

All Products Now Made Globally

WWW.BRAZING-TECHNOLOGY.COM



BTETM
BRAZING TECHNOLOGIES EUROPE

About Us

BTE is a leading innovative aluminium brazing product company. BTE has over 25 Years experience in the development, manufacturing and sales of aluminium brazing products with customers all over the globe.

Due to the high demand these products are now produced in Europe for the EMEA market. All products are produced under licence agreement and direct supervision for BTE engineers and quality managers.

Our focus is on advanced aluminum brazing products that support our customers in achieving optimal, repeatable and economical brazing results.

We guarantee that our customers will save money with our high quality cost effective products and

Our Locations

We have locations in USA and Europe with several local stocks for fast delivery.





Product Selection Chart

PRODUCTS
 ALUMAKOTE HX Paint Flux
 ALUMAKOTE Standard Paint Flux
 ALUMAKOTE HX Binder Concentrate
 ALUMAKOTE Standard Binder Concentrate
 ALUMASIL Fx-12 Braze Paste
 ALUMASIL Fx-10 Braze Paste
 ALUMASIL Fx-7 Braze Paste
 ALUMATEC HX B-Tube Flux
 ALUMATEC Standard B-Tube Flux
 ALUMATEC Custom Formulated Flux Pastes
 SOLDERTEC Flux Integrated Braze Wire & Rings
 ALUMATEC Flux Integrated Solder Wire & Rings
 ALUMATEC Green Stop Off
 ALUMATEC Surface Treatment 225
 SOLDERTEC Aluminum Braze Repair
 SOLDERTEC Aluminum Solder Repair

Applications	ALUMAKOTE HX Paint Flux	ALUMAKOTE Standard Paint Flux	ALUMAKOTE HX Binder Concentrate	ALUMAKOTE Standard Binder Concentrate	ALUMASIL Fx-12 Braze Paste	ALUMASIL Fx-10 Braze Paste	ALUMASIL Fx-7 Braze Paste	ALUMATEC HX B-Tube Flux	ALUMATEC Standard B-Tube Flux	ALUMATEC Custom Formulated Flux Pastes	SOLDERTEC Flux Integrated Braze Wire & Rings	ALUMATEC Flux Integrated Solder Wire & Rings	ALUMATEC Green Stop Off	ALUMATEC Surface Treatment 225	SOLDERTEC Aluminum Braze Repair	SOLDERTEC Aluminum Solder Repair
Strategic Flux Coating	•	•														
In-House Paint Flux Mfg. Flux Fall Off Flux Dust Management			•	•												
Tube to Header Inlet & Outlet Tube Brackets					•	•	•									
Folded Tube								•	•							
Folded Tube Extended Storage & Tropical Climate								•								
Flame & Furnace Brazing										•						
Block-Clinch Tube-Outlets-Inlets										•						
Alloy Flow Management Fixture Protection												•				
Surface Tension Surfactant													•			
Aluminum Repair											•	•			•	•

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Our Focus Industries

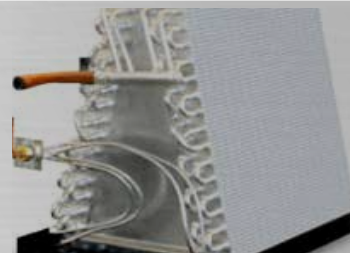
Automotive

- Folded Tubes
- Headers
- Baffels
- All tubing and connection
- Other



HVAC

- Air-Condition Parts
- Evaporators
- Coils
- Industrial Cooling Coils
- Other



White Goods

- Water Boiler
- Refrigerators
- Heating Elements
- Thermal Management Systems
- Other



Brazing Services

- Flame Brazing
- Induction Brazing
- Furnace Brazing
- Support in transition from copper to Aluminium





Our Technical Resources

Structural / Chemical Analysis

- Optical microscopy
- X-ray diffraction analysis
- Electron microscopy
- ICP-AES



Structural / Chemical Analysis

- Creep properties
- Tensile and Yields Testing
- DTA (Differential Thermal Analysis)
- Hardness



Brazing Trials

- Flame Brazing
- Furnace Brazing
- Induction Brazing



Brazing Product Development / Prototyping

- New Pastes Developments
- Alloy Development and Prototyping

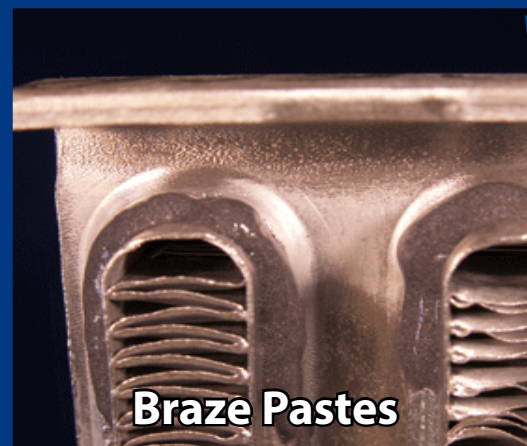




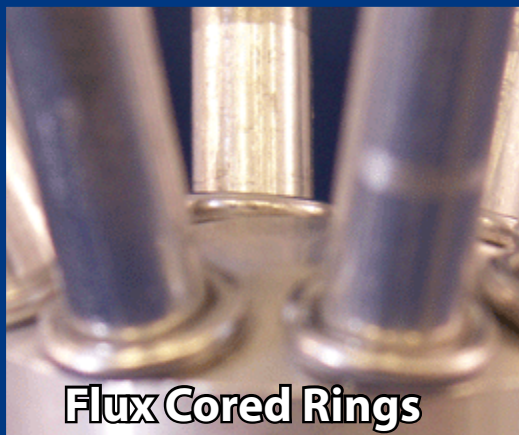
Innovative Paint Flux



Pre-Forms



Braze Pastes



Flux Cored Rings



Furnace Brazing Solutions



Corrosive Flux Paste



Manual Brazing Solutions



Innovative Flux Pastes



Flux Cored Wire



HVAC Solutions



Flux Cored Rods



Folded Tube Pastes



Technical Support

Prototype Brazing

- Induction Brazing Trials
- Furnace Brazing Trials
- H₂O Gas Brazing Trials
- Oxyfuel Brazing Trials
- Custom Product Development with in process trials at customer locations globally



Analytical Capabilities

Microstructural and Chemical Analysis

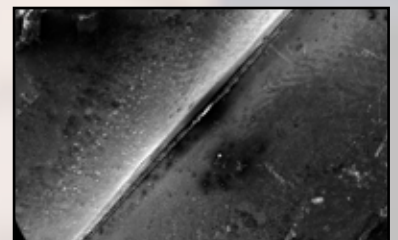
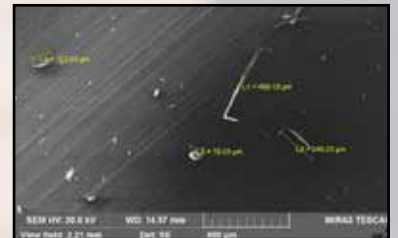
- Light microscopy
- Electron microscopy
- X-ray diffraction analysis
- Chemical analysis

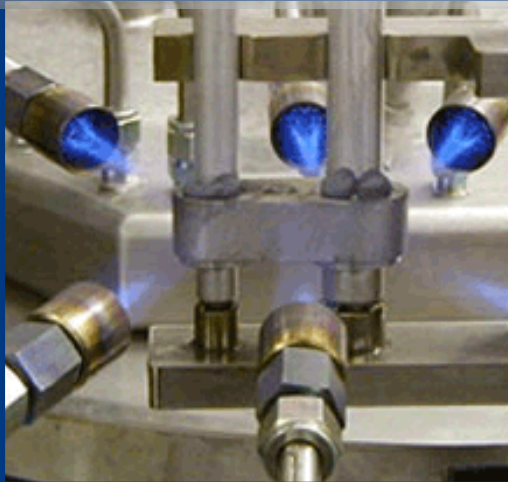
Mechanical Testing

- Creep properties
- Strength, fracture and durability properties
- Hardness, microhardness

Thermal Analysis

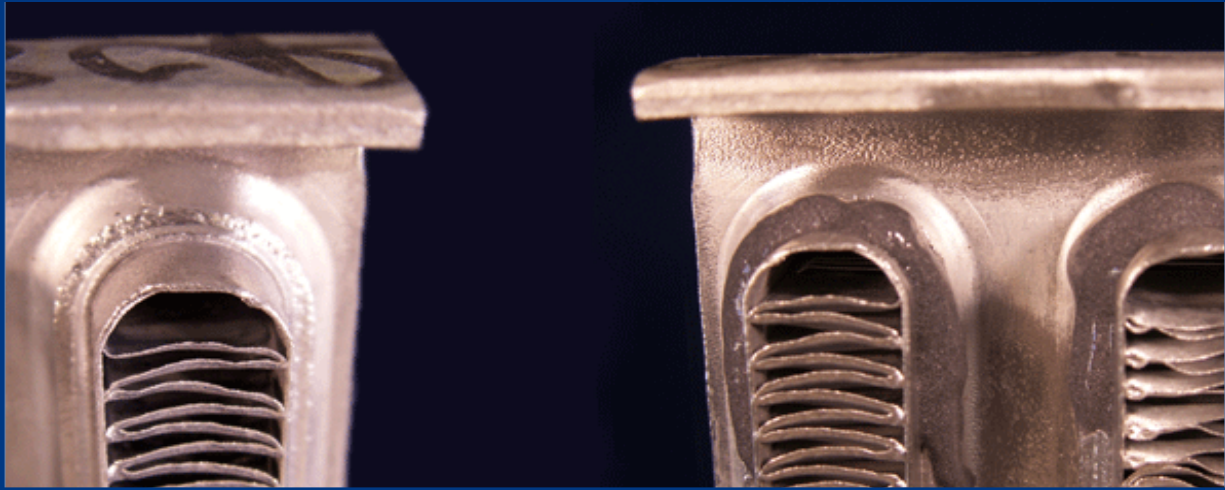
- DTA
- TGA





ALUNOKTM Non-Corrosive Aluminium Flux Powder

Product	Performance Range	General Description	Process
ALUNOK TM Ultra Fine	549 – 560 °C	Non-Corrosive flux powder with ultra fine grain size. Typically used with aluminium silicon alloys.	Flame Brazing / CAB Furnace
ALUNOK TM Fine	549 – 560 °C	Non-Corrosive flux powder with fine grain size. Typically used with aluminium silicon alloys.	Flame Brazing / CAB Furnace
ALUNOK TM Standard	549 – 560 °C	Non-Corrosive flux powder with standar grain size. Typically used with aluminium silicon alloys.	Flame Brazing / CAB Furnace
ALUNOK TM Large	549 – 560 °C	Non-Corrosive flux powder with large grain size. Typically used with aluminium silicon alloys.	Flame Brazing / CAB Furnace
ALUNOK TM Cesium	470 – 490 °C	Non-Corrosive flux powder with ultra fine grain size. Typically used with zinc based alloys.	Flame Brazing / CAB Furnace
ALUNOK TM Cesium Ultra	410 – 440 °C	Non-Corrosive flux powder with ultra fine grain size. Typically used with zinc based alloys.	Flame Brazing / CAB Furnace
ALUNOK TM Standard Cs	549 – 560 °C	Cesium enriched non-corrosive flux powder with standard grain size. Typically used with aluminium silicon alloys on Mg containing aluminium base materials.	Flame Brazing / CAB Furnace



ALUMASILTM BRAZE PASTES

Reference	Composition %				Melting Range	Density g/cm ³	Tensile (mpa)	International Norms			Joint Clearance
	Al	Si	Zn	Ag				AWS A5.8	EN	DIN 8513	
Alumasil FX-12	88	12	-	-	575-585 °C	2.65	125	BAISi-4	AL104	L-Al Si12	Good Fit Up
Alumasil FX-10	92	7	-	-	577-591 °C	2.65	-	BAISi-5	-	-	Average Fit Up
Alumasil FX-7	95	5	-	-	577-612 °C	2.65	-	BAISi-2	-	-	Poor Fit Up
Alumasil FX-7C	95	5	-	-	577-612 °C	2.65	-	BAISi-2	-	-	Poor Fit Up
Alumasil FX-12C	88	12	-	-	575-585 °C	2.65	125	BAISi-4	AL104	L-Al Si12	Good Fit Up
Alumasil FX-10C	92	7	-	-	577-591 °C	2.65	-	-	-	-	Average Fit Up

C = Contains Cesium Fluoride

Note: All Pastes can be adapted to each customers unique requirements

Standard formula and low flux and alloy versions available.



Aluminium Brazing Alloys Solid / Flux Cored (FC)

Products	Composition in Weight %				Melting Range °C	Working Temp. °C	Density g/cm ³	International Norms		
	Al	Si	Zn	Ag				AWS A5.8	EN 1044	DIN 8513
ALUMATEC™ 1200	88	12	-	-	575-585	580	2,65	BAISi-4	AL104	L-Al Si12
SolderTec™ 980	2	-	98	-	375-388	380	7,04	-	-	-
SolderTec™ 780	22	-	78	-	440-470	450	6,47	-	-	-
SolderTec™ 850	15	-	85	-	382-450	450	5,73	-	-	-
ALUMATECH™ 1200 FC	88	12	-	-	575-585	580	2,65	BAISi-4	AL104	L-ALSi12
SolderTec™ 980 FC	2	-	98	-	375-388	380	7,04	-	-	-
SolderTec™ 850 FC	15	-	85	-	382-450	450	5,73	-	-	-
SolderTec™ 780 FC	22	-	78	-	440-470	450	6,47	-	-	-
ALUMATEC™ 780 AG	18	-	78	4	420-460	450	7,47	-	-	-

Flux cored products can be custom made according to customer flux type and flux quantity requirements. Typical ratios from 10-30% and with various flux types such as KAIF, CsAlF and various combinations. Please consult our sales engineers for recommendations on product selection.

Flux cored wires sizes from 1.5mm up to 3.0mm.

Ring sizes from 4mm ID up to 50mm ID. Other sizes available on request.



ALUMAKOTE[™] Paint Flux / Spray Flux / GEL Paint Flux Binder-NMP Free

Product	Performance Range	General Application	Process Application	Process
Alumakote [™] Paint Flux (ready to use)	564-572 °C	Extruded Tube, Headers, Baffles, Evaporator Plates	Dip, Spray,	CAB Furnace
Alumakote [™] Binder Concentrate	564-572 °C	Extruded Tube, Headers, Baffles, Evaporator Plates	Dip, Spray	CAB Furnace
Alumakote [™] GEL Paint Flux Binder NMP Free	564-572 °C	Extruded Tube, Headers, Baffles, Evaporator Plates	Dip, Spray	CAB Furnace

Alumakote[™] is a paint-flux binder concentrate used in the manufacture of paint-flux.

Alumakote[™] binder is used in a mixture of water and non-corrosive flux to produce a quality paint-flux for strategically coating radiator, condenser, and evaporator components. Alumakote[™] can be used in most furnace brazing applications and can be applied by dipping, brushing and spray applications.

Technical Advantages

- Lower DTA & TGA (Tech Advantages in you catalog are okay)
- NMP Free
- Reduce Flux Fall Off & Dust
- Improved Post Braze Appearance
- No Post Braze Discoloration
- Reduce Flux Usage
- Custom Solutions



ALUMATEC[™] B TUBE FLUX PASTE

Product	Performance Range	General Application	Process Application	Process
ALUMATEC [™] B TUBE FLUX Standard System	564-572C	Folded Tube	Auto-Dispense	Folded Tube Manufacture
ALUMATEC [™] B TUBE FLUX Type HX Tropical Climate Formula	564-572C	Folded Tube	Auto-Dispense	Folded Tube Manufacture

ALUMATEC[™] B TUBE FLUX PASTE IS THE REFERENCE FOR B TUBE PASTES.

Technical Advantages

- Custom Formulas and Viscosities Available
- Cleanest and Fastest Burn Off of Binder
- Non-Hydroscopic and Non-Corrosive can be Applied Weeks Before Tubes are Brazed.
- Paste has Industry Leading Stability
- Consistant Viscosity
- No Post Braze Discoloration
- Engineered for Auto-Dispense Applications
- Engineered for Folded Tube Applications
- Engineered for Furnace Brazing Processes
- Custom Formulations and Solutions



ALUMATECTM FLUX PASTE

Product	Performance Range	General Application	Process Application	Process
ALUMATEC TM Type-FBX Flame Braze Flux	550-600 °C	Aluminum	Manual / Auto-Dispence	Flame Braze
ALUMATEC TM Type-FBX-Cs Flame Braze Cs Flux	550-600 °C	Aluminum	Manual / Auto-Dispence	Flame Braze
ALUMATEC TM Type-FBX-Si Flame Braze Si Flux	550-600 °C	Aluminum	Manual / Auto-Dispence	Flame Braze
ALUMATEC TM Type-FBX-200 Flame Braze Chloride Type Flux	480-650 °C	Aluminum	Manual / Auto-Dispence	Flame Braze Flux residue must be removed after brazing
AlCor TM Paste Flame Braze Chloride Type Flux	450-572 °C	An active chloride based aluminum brazing flux paste with corrosive flux residues.	Flame Brazing	Flame Braze Flux residue must be removed after brazing
AlCor TM Powder Flame Braze Chloride Type Flux	500-580 °C	An active chloride based aluminum brazing flux powder with corrosive flux residues.	Flame Brazing	Flame Braze Flux residue must be removed after brazing
AlCor101 TM Paste Flame Braze Chloride Type Flux	500-580 °C	An active chloride ZnCl Free based aluminum brazing flux paste with corro- sive flux residues.	Flame Brazing	Flame Braze Flux residue must be removed after brazing
AlCor TM 101 Pow- der Flame Braze Chloride Type Flux	564-572 °C	An active chloride ZnCl Free based aluminum brazing flux powder with corrosive flux residues.	Flame Brazing	Flame Braze Flux residue must be removed after brazing

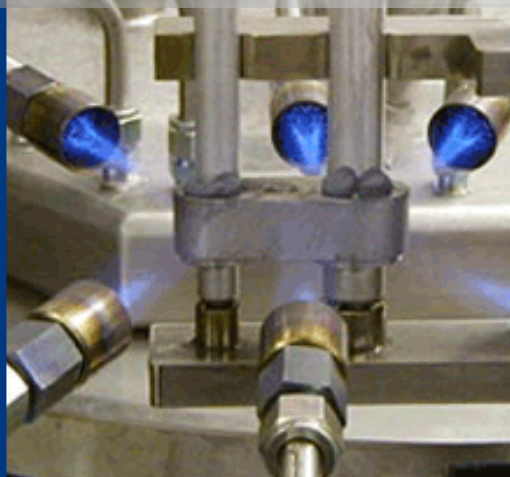


ALUMATEC[™] ROLL COAT FLUXES

Product	Performance Range	General Application	Process Application	Process
ALUMATEC [™] TYPE-NDS Non Drying System	564-572 °C	Folded Tube	Roll Coating Excellent Adhesion	CAB Furnace
ALUMATEC [™] TYPE-SDS Slow Drying System	564-572 °C	Folded Tube	Roll Coating Tough Coating When Dry	CAB Furnace
Brazekote Type-AFS Alloy/Flux System/Slow Drying	564-572 °C	Header Tube Micro Channel Tube	Roll Coating	CAB Furnace
ALUMATEC [™] Type-RXT Tacky / non drying	564-572 °C	Folded Tube	Roll Coating Tacky Flexible	CAB Furnace
ALUMATEC [™] Type-RXS Standard	564-572 °C	Folded Tube	Roll Coating Tough Coating When Dry	CAB Furnace

Technical Advantages

- Custom Formulas and Viscosities Available
- Cleanest and Fastest Burn Off of Binder
- Non-Hydroscopic and Non-Corrosive can be Applied Weeks Before Tubes are Brazed.
- Paste has Industry Leading Stability
- Consistant Viscosity
- No Post Braze Discoloration
- Engineered for Auto-Dispense Applications
- Engineered for Furnace Brazing Processes
- Custom Formulations and Solutions



Supporting Products

Product	Performance Range	General Application	Process Application	Process
Braze Stop	564-572 °C	Used to prevent flow of brazing alloy.	Brush on	CAB Furnace
ANTAROX BL 225	564-572 °C	Surfactant for liquid fluxes	Roll Coating Tough Coating When Dry	CAB Furnace

BTE

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WWW.BRAZING-TECHNOLOGY.COM

BRAZING TECHNOLOGIES EUROPE S.R.O.
PRESOV, SK
EXPORT@BRAZING-TECHNOLOGY.COM

PHONE:713-641-9003 FAX:713-641-9001 SALESINFO@BTIBRAZE.COM