

Flux ■ Equipment ■ Graphite Shafts
For The Aluminum Casting Industry



MOLTEN METAL PROCESSING
WIF
Wedron Flux

Injection Grade Flux

Metal Processing Solutions for Every Application

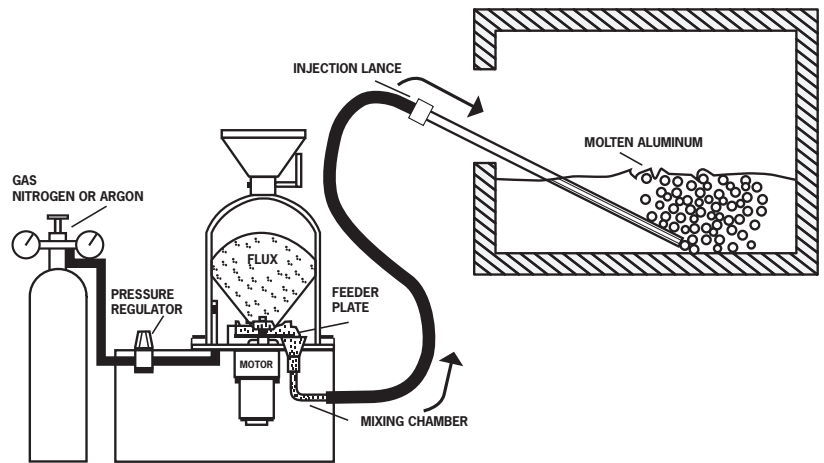
Injection Grade Fluxes

WF 1	Cleaning and degassing flux for use with most aluminum alloys except Al/Mg alloys and alloys refined with phosphorous (1330-1440°F)
WF 2	Sodium-free cleaning and degassing flux for use with all aluminum alloys, including Al/MG and conductive alloys (1290-1385°F)
WF 3	Cleaning and degassing flux for use with most aluminum alloys except Al/Mg alloys and alloys refined with phosphorous (1260-1400°F)
WF 37	Cleaning and degassing flux for use with most aluminum alloys except Al/Mg alloys and alloys refined with phosphorous (1180-1330°F)
WF 44	Sodium-free cleaning and degassing flux for use with all aluminum alloys including Al/Mg and conductive alloys (1365-1560°F)
WFSF 71	Sodium-free cleaning and degassing flux for use with all alloys including Al/Mg and conductive alloys (1290-1390°F)
WFEI 142	Formulated for cleaning and degassing. This is a low fluoride and low fume producing flux suitable in a wide range of furnace sizes. The exothermic reaction results in a very dry dross (1325-1450°F)
Ecoflux 142	Low fluoride, sodium free drossing flux for temperatures above 1330°F
Ecoflux 152	Fluoride free, low melting point covering flux suitable for melting swart, turnings and dirty scrap in reverb furnaces; <i>may be used with the Flux Injection System to remove oxide build-up from the walls of furnaces</i>



Flux	Aluminum Alloy									
	319	355	356	380	383	390	411	413	514	535
WF 1	✓	✓	✓	✓	✓		✓	✓		
WF 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WF 3	✓	✓	✓	✓	✓		✓	✓		
WF 37	✓	✓	✓	✓	✓		✓	✓		
WF 44	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WFSF 71	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WFEI 142	✓	✓	✓	✓	✓		✓	✓		
ECO 142	✓	✓	✓	✓	✓		✓	✓	✓	✓
ECO 152	✓	✓	✓	✓	✓		✓	✓		

Flux Injection Process Equipment



Manual Grade Fluxes

WF 7	High purity Sodium and Calcium free flux for general application and extrusions, etc.
WF 11	General purpose cleaning flux for use at lower temperatures (1220-1365°F)
WF 30	Cleaning and protective flux used for contaminated charges and the prevention of oxide build-up in holding vessels
WFSF 401	Low fluoride and sodium free cleaning and drossing off flux for the treatment of most alloys; forms a dry cover on the melt
COVER 131	Low fluoride, general purpose flux for use at a wide range of temperatures (1200-1475°F) in all types of furnaces
WF 132	A general purpose Aluminum cleansing flux suitable for use at a wide range of temperatures and in all types of furnaces (1200-1475°F)
WF LC1	General purpose Pb Lead dross reduction flux. Can be used on a wide range of lead alloys and temperatures (690-950°F)
Ecoflux 142	Low fluoride, sodium free drossing flux for temperatures above 1330°F
Ecoflux 152	Fluoride free, low melting point covering flux suitable for melting swart, turnings and dirty scrap in reverb furnaces; <i>may be used with the Flux Injection System to remove oxide build-up from the walls of furnaces</i>



Flux	Aluminum Alloy									
	319	355	356	380	383	390	411	413	514	535
WF 7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WF 11	✓	✓	✓	✓	✓		✓	✓		
WF 30	✓	✓	✓	✓	✓		✓	✓		
WFSF 401	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
COVER 131	✓	✓	✓	✓	✓		✓	✓		
WF 132	✓	✓	✓	✓	✓		✓	✓		
WF 134	✓	✓	✓	✓	✓		✓	✓		
ECO 142	✓	✓	✓	✓	✓		✓	✓	✓	✓
ECO 152	✓	✓	✓	✓	✓		✓	✓		



This photo shows dry dross being removed from a transfer ladle after F1/RD treatment. Dry dross reveals minimal aluminum content in the dross.

Equipment

Improving the Bottom Line

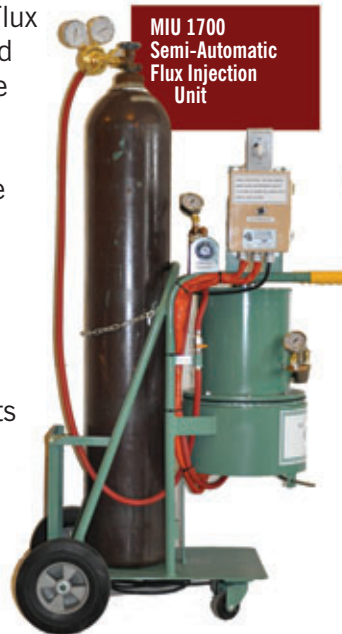
Your Castings and Your Bottom Line. Our Products Improve Both.

Castings that exemplify quality. Efficiency that drives profitability. These are your goals. And Wedron Flux helps you achieve them with equipment designed and engineered to improve casting integrity while enhancing the cleanliness of your molten metal processing system. The result? Defect-free aluminum castings produced with less downtime and fewer manhours.

Our Products include...

- “Mini” 80/1000 Inert Rotary Degassing Unit
- Well-Mount and Hoist-Hung Inert Rotary Degassing Units
- FF05/FF40 Fully-Automatic Flux Injection Units
- RotaFlux™ Combination Flux Injection and Rotary Degassing Unit
- Hydro-Tech Test Equipment
- Inert Rotary Degassers
- Wedron Flux Degasser

With Wedron Flux, you get results you can see in the quality of your castings...and in the number on your bottom line.



MIU 1700
Semi-Automatic
Flux Injection
Unit



RotaFlux
Combination Flux
Injection and
Rotary
Degassing Unit

IDU-6000
Degasser
for
Cleaning and
Degassing
Molten
Aluminum



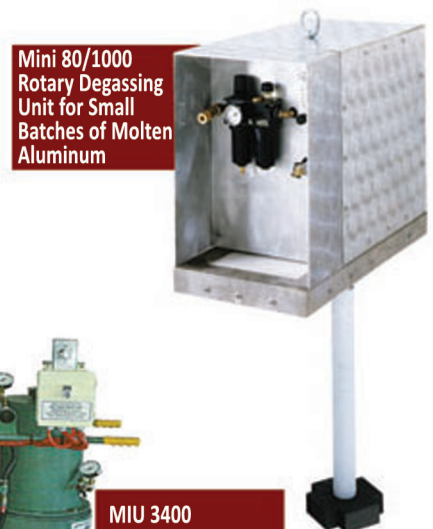
FF05
Fully-Automatic
Flux Injection
Unit



FF40
Fully-Automatic Flux
Injection Unit



MIU 3400
Semi-Automatic
Flux Injection
Unit



Mini 80/1000
Rotary Degassing
Unit for Small
Batches of Molten
Aluminum

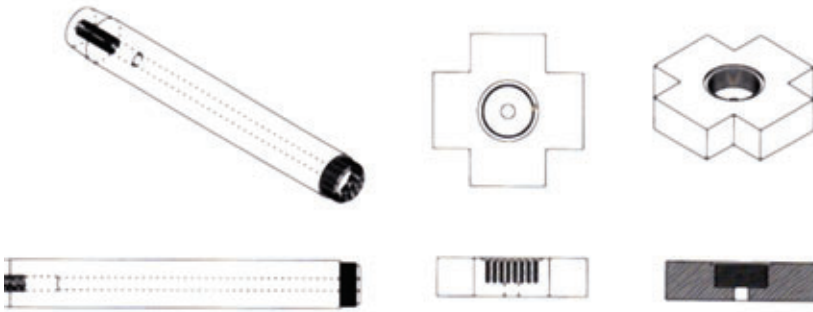
Shafts & Rotors

Wedron Flux Offers a Complete Line of Graphite Rotors and Shafts



31" Shaft
Part 313TA

8"x 8" x 2" Rotor
Part 882TT



Shafts and Rotors

- All shafts and rotors are CNC machined guaranteeing dimensional accuracy
- Graphite shafts are boron nitrate wrapped for extended life and available in 18, 24 and 31-inch lengths
- Graphite rotors are specifically designed for optimum shearing action and available in 6, 8 or 10-inch widths
- Engineered to the strictest tolerances and manufactured under strict quality control standards for proper product conformance
- Graphite is composed of a special particle size and impregnated to reduce oxidation
- Other machined graphite components available upon request



366064	Graphite Rotor - Wedro 868-P
366065	Graphite Shaft - Wedro 711P-28-B
366066	Graphite Rotor - 8" Diameter - 882TT
366067	Graphite Geartype Rotor - 882G-8
366069	Graphite Rotor - 7" Diameter - 772TT
366070	Graphite Rotor - 6" Diameter - 662TT
366092	Graphite Baffle Board - 1418G
366111	Graphite Geartype Rotor - 662G-8
366112	Graphite Rotor - 6" Diameter - 6622TT
366113	Graphite Rotor - 662158TT
366115	Graphite Shaft 3" x 36" - 363NT
366116	Graphite Geartype Rotor - 772G-8
366117	Graphite Shaft 3" x 31" - 313TA-8
366119	Graphite Shaft 3" x 31" - 313TA
366120	Graphite Shaft 2" x 31" - 312NT
366121	Graphite Shaft 3" x 24" - 243TA
366122	Graphite Shaft 2" x 24" - 242NT
366123	Graphite Shaft - 24158-NT

HAI offers the North American foundries the most comprehensive range of products supported in three market segments: Resin Systems for bonding sand; Resin Coated Sand (RCS) for the shell process; and Refractory Coatings. Resin systems include: shell resins, ester cured phenolic coldbox and nobake resins, phenolic urethane coldbox and nobake resins, acid curing furan and phenolic resins, hot box resins, and inorganic binders. RCS's available from HAI include products for general purpose, aluminum, low nitrogen and specialty coated sands such as zircon. Refractory coatings include products for iron, steel, and lost foam applications, and foundry companion and auxiliary products such as adhesives and release agents.

OPERATIONAL EXCELLENCE AND CAPABILITIES

Operational excellence defines HAI's performance standard. It represents our commitment to continuously improving everything we do. HAI has met rigorous quality standards required for ISO 9001:2000 certification at all of our manufacturing facilities: the resin production operation in Louisville, KY; the resin coated sand operation in Oregon, IL; the refractory coating operation in Toledo, OH. HAI is also promoting qualification of its facilities under the ISO 14001 standards which requires a proactive program related to environmental compliance.

Our main research & development facility is located with the global headquarters in Westmont, IL. The state-of-the-art laboratories include: facilities for conducting analytical chemistry evaluations, synthesizing resin polymers, and developing refractory coatings, all related to applications in the foundry field. Additional critical research and development is performed in Toledo, OH.

HAI employs the largest dedicated Research and Development staff in the industry. EcoMission is HAI's latest innovation, introducing environmental products that support sustainability and minimize foundry environmental impact. With this, comes our ongoing commitment to continually improving product performance and value.

In every situation, HAI's Management, Sales, Marketing, Technical Service, R&D and Customer Service Departments work closely with customers to assure on time delivery of quality products to the industry. Our "Best Total Solution" philosophy is to establish strategic relationships with customers with the objective of improving productivity and performance while providing a safe, environmentally acceptable workplace.

Our Research and Development commitment, along with our Manufacturing commitment to the foundry industry, will continue to emphasize constant improvement in the performance characteristics and productivity of our products.

Our EcoMission



To be recognized as an EcoMission classification, each one of our products must meet at least three out of five environmental criteria.

These criteria are:

- ✓ Utilizes water or renewable components
- ✓ Utilizes recycled components
- ✓ Low Volatile Organic Compound (VOC)
- ✓ Low Hazardous Air Pollutant (HAP)
- ✓ Low Odor