

Syn^{thetic}EX^{othermic}s

RF78

RF78 is a low smoke drossing/cover/injection flux. Designed to remove unwanted oxides from molten aluminum alloys, it provides the cleanest possible metal from any cover/drossing flux available anywhere. Its formulation was designed to give the best possible results across most series of aluminum alloys. It is blended with the finest chemicals available, yet maintains a strong price/performance position in the market. **RF78** also has a dual exothermic property that works well at both low and high temperatures. **RF78** also works well as an economy injection flux.

Product Appearance

Like all Synex fluxes, **RF78** is snow white in color and has the consistency of powdered sugar. All materials in Synex **RF78** are of the highest quality available. The high quality materials are custom blended to keep the product granularity very tight, which prevents the flux from becoming unblended during shipment.

Product Purpose

RF78 is highly effective at the removal of oxide buildup from molten aluminum castings. It also aids in the removal of nonmetallic impurities and minimizes the metallic content of the dross. **RF78** reduces melt losses by removing more metal from the dross thus increasing the metal available for castings.

Product Usage

RF78 is most effective when it is placed on the aluminum bath at a ratio of about ¼ to ½ lb. of flux per square foot of metal. The flux should then be rabbled into the immediate surface of the metal and allowed to stand for a short time before the dross is removed. As additional metal is charged, more flux should be added to keep the melt free of additional oxide buildup. Experience will determine how often and how much flux is needed.

To order or receive additional product information call:

Synthetic Exothermics, Inc.
One Madison St.
Newnan, Georgia 30263

Tel. - (770)253-7652

Fax - (866)894-4254

**Web - <http://www.synex-flux.com/>
charlie@synex-flux.com**

“High Tech Fluxes for World Class Casters”

inventory available in:

Atlanta, Birmingham, Charlotte, Cleveland, Indianapolis, Minneapolis, St. Louis, Tulsa and Altoona
Also-- Ontario & Quebec in Canada. Monterrey, Mexico

Synthetic Exothermic, Inc. fluxes are of the highest quality and conform with all Synex specifications. Purchaser must read and adhere to all safety handling warnings. Due to the fact that Synex has no control of the purchasers usage, Synex makes nor implies any warranties.

date prepared 04/16/2008

PRODUCT NAME

RF 78 ALUMINUM FLUX

SECTION I - PRODUCT IDENTITY

Manufacturers name: **Synex, Inc.**

EMERGENCY TELEPHONE: 770-253-7652, FAX 866-894-4254

address: **Synthetic Exothermics, Inc.**; One Madison Street, Newnan, Georgia 30263

Chemical name: aluminum flux trade name and synonyms: **RF78**

PRODUCT IDENTIFICATION

Chemical Name: Flux

Chemical Family: Chlorides, Carbonates, Fluorides

Formula: Mixture

NFPA/HMIS: Health -2, Fire -0, Reactivity-0, Specific hazard

SECTION II HAZARDOUS INGREDIENTS/ IDENTITY INFORMATION

| Hazardous Components | OSHA PEL | ACGIH TLV | other limits recommended |
|---|----------|-----------|--------------------------|
| Specific Chemical Identity: Common Name(s) | | | |
| Fluorides as potassium aluminum fluoride (CAS NO. 60304-36-1, less than 10%) | 2.5mg/m3 | 2.5mg/m3 | N/A |
| Fluorides as sodium silicofluoride (CAS NO. 16893-85-9 less than 10%) | 2.5mg/m3 | 2.5mg/m3 | |
| Nuisance Dust Respirable | 5mg/m3 | 5mg/m3 | N/A |
| Total Dust | 15mg/m3 | 10mg/m3 | N/A |

SECTION III - PHYSICAL PROPERTIES

| | |
|----------------------------------|---|
| molecular weight:nd | specific gravity(water=1):nd |
| melting point (deg. F):1150-1250 | boiling point (deg. C):na |
| water solubility (wt.%) 8.5gr/LT | volatiles (wt.%)nd |
| vapor pressure (mmhg):na | vapor density (air =1):na |
| evaporation rate: nd | appearance and odor:white crystalline powder. |

SECTION IV- FIRE AND EXPLOSION HAZARD DATA

Flash point (method used): nd flammable limits:nd
extinguishing media: this product is not considered flammable, nor will it support combustion.
special fire fighting procedures: wear respirator for fluorides
unusual fire and explosion hazards: fumes of f si4 and na2 may be given off

SECTION V- REACTIVITY DATA

stability: unstable stable X factors promoting instability:
hazardous polymerization: will not occur
incompatibility: acid, acidiferous vapors
avoid contact with:acids or high temperatures except under controlled conditions.
Avoid dampness. Keep container closed. **Store in dry place.**
hazardous decomposition products:fumes of F, Cl, and NaO2 may be given off
when heated to decomposition.

na= not applicable nd= not determined unk=unknown

SECTION VI- HEALTH HAZARD INFORMATION

Routes of Entry Inhalation? yes Skin? yes Ingestion? yes
Health Hazards (acute and chronic):

Prolonged exposure to skin may lead to irritation. Prolonged inhalation may cause mucous membrane and respiratory system irritation. Harmful or fatal if ingested.

Carcinogenicity: not known to be a carcinogenic

NTP? No IARC monographs? No OSHA Regulated? No

Medical conditions generally aggravated by exposure. - None Known

Emergency and First Aid Procedures-

Skin Contact- Flush liberally with flowing water for at least 15 minutes.

Eye Contact- Flush liberally with flowing water or physiological NaCl solution. When Flushing eyes, Lids should be kept open.

Inhalation. Remove to fresh air. In case of breathing difficulties, give oxygen.

In any of the above situations, call a physician.

SECTION VII - ENVIRONMENTAL PROTECTION PROCEDURES

release or spill response: use clean up method which minimizes airborne dust and avoid contamination to outplant streams.

waste disposal method: properly label waste container.

SECTION VIII- SPECIAL PROTECTION INFORMATION

hands (glove material to minimize contact): avoid skin contact.

eyes: avoid eye contact. Use goggles.

respirator type: use NIOSH approved respirator when tlv is exceeded.

ventilation requirements: local exhaust required.

other: safety shower and/or eye wash should be available

SECTION IX - SPECIAL PRECAUTIONS

special precautions in handling and storing: wash after handling **store in dry area.**

shipping regulations: none labels required:nd

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