

TRADE NAME (Common name or synonym): ALUMINUM ALLOY EXTRUSION

CHEMICAL NAME
Aluminum

FORMULA:
Al

DOT IDENTIFICATION NUMBER
NA

I. INGREDIENTS

*TLV=Threshold Limit Value
**PEL=Permissible Exposure Level
TWA=Time Weighted Average

MATERIAL OR COMPONENTS:

Base Metal	% Composition By Weight	CAS #	1984-85 ACGH* TLV (mg/M ₃)	OSHA 1910.1000** PEL (mg/M ₃) (TWA)
Aluminum	min. 92%	7429-90-5	10.0 as metal dust and oxide 5.0 as welding fume	Not established Not established

INGREDIENTS WHICH MAY BE GREATER THAN OR EQUAL TO 1%
(0.1% for nickel and chromium)

Silicon	Manganese	Zinc
Iron	Magnesium	Aluminum
Copper	Chromium	

Chromium is contained in certain 6XXX alloys. Chromium and its compounds are listed in the 3rd annual report on carcinogens. Their presence in 6XXX aluminum extrusions, however, does not present a carcinogenic or other health concern due to either their low concentration or the chemical form in which they are present.

II. PHYSICAL DATA

MATERIAL IS (AT NORMAL CONDITIONS):

APPEARANCE AND ODOR:

Liquid Solid Gas Other

Tin white metallic, no odor.

ACIDITY/ALKALINITY

pH=NA

Melting Point 900—1200° F
Boiling Point NA ° F

Specific Gravity 2.7
(H₂O=1)
Solubility in water NA
(% by weight)

VAPOR PRESSURE

(mm Hg at 20° C)
NA

III. PERSONAL PROTECTIVE EQUIPMENT

Provide adequate ventilation to meet exposure limits (Section I). A NIOSH approved respirator should be worn when the exposure limit is or may be exceeded. Other personal protective equipment, i.e. glasses, goggles, gloves, clothing, ear protection, protective equipment will be determined by the nature of the processing activity (grinding, welding, machining, etc.).

IV. EMERGENCY MEDICAL PROCEDURES

Skin Contact—Remove particles by thoroughly washing with soap and water.
Eye Contact— Flush with water for at least 15 minutes, lifting eyelids occasionally. Consult a physician if irritation persists.

Continued

V. HEALTH/SAFETY INFORMATION

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Inhalation: Aluminum dust/fines, and fumes are a low health risk and should be considered as a nuisance dust (ACCIH). Overexposure to welding fumes could result in dizziness, nausea, and/or irritation of the throat and nose.

Ingestion: Nontoxic.

Skin: Not an irritant.

Eyes: May irritate eyes when welding or cutting.

OCCUPATIONAL EXPOSURE LIMITS: See Section I

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FLASH POINT
NA ° F

AUTO IGNITIONS TEMP.
NA ° F

FLAMMABLE LIMITS IN AIR
Lower NA %
Upper NA %

EXTINGUISHING MEDIA
Class D Extinguishing Agent
or Sand.

FIRE & EXPLOSION HAZARDS:
Dust cloud may be explosive;
Prevent dust cloud formation;
See additional information.

EXTINGUISHING MEDIA NOT TO BE USED:
Do not use water or halogen
on dust, fines or chip fires.

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STABILITY:
X Stable ___ Unstable

INCOMPATIBILITY (MATERIALS TO AVOID):
See Additional Information.

CONDITIONS TO AVOID: See Fire and Explosion Section; See Additional Information.

HAZARDOUS DECOMPOSITION PRODUCTS:
See Fire and Explosion Section; See Additional Information.

VI. ENVIRONMENTAL

SPILL OR LEAK PROCEDURES:
Minimize dust generation during clean-up.

WASTE DISPOSAL METHOD:
Collect scrap for remelting.

VII. ADDITIONAL INFORMATION

1. Damp aluminum dust, fines, or small chips may spontaneously heat with liberation of hydrogen to form explosive mixtures. Water /Aluminum mixtures may be hazardous when confined.
2. Acids and alkalis in contact with aluminum may generate explosive mixtures of hydrogen.
3. Strong oxidizers in contact with aluminum may cause violent reaction with heat generation.
4. Halogenated compounds may react violently with finely divided aluminum.

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