



3245 Fayette Avenue
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To Our Valued Customers:

The following documents are the Material Safety Data Sheets (MSDS's) of our various product lines for your reference. They have been prepared with information from our suppliers to comply with the Federal Hazard Communication Standard, 29 CFR 1910.1200. The MSDS contains important safety, health and regulatory information that is important to you, your employees and customers who are exposed to these materials.

In addition, some of the components may be subject to the reporting requirements of Section 313, Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA), 40 CFR Part 372, as well as to the Comprehensive Environmental Response, Conservation and Liability Act of 1980 (CERCLA), 40 CFR Part 302. If you are unsure as to your reporting requirements, or need more information, call the USEPA SARA Hotline: (800) 424-9346, or the Emergency Planning and Community Right-to-Know Act Hotline: (800) 535-0202.

The MSDS is supplied to provide safety, health and environmental information only and must not be used for material specifications.

Please contact your sales person or call us directly if you require further assistance.

Sincerely,

AMICO

IMPORTANT
Liability Disclaimer

The information contained in the referenced Material Safety Data Sheet (MSDS) is believed to be correct as it was obtained from sources we believe are reliable. However, no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications, hazards connected with the use of the material, variations in methods, conditions and equipment used to store, handle, or process the material and hazards connected with the use of the material are solely the responsibility of the user and remain at his/her sole discretion.

Compliance with all applicable federal, state, and local laws and regulations remains the responsibility of the user, and the user has the responsibility to provide a safe work place to examine all aspects of its operation and to determine if or where precautions, in addition to those described herein, are required.

MATERIAL SAFETY DATA SHEET



Alabama Metal Industries Corp.
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Revised: May 2010

SECTION 1: Identification

CHEMICAL NAME: Aluminum Bar Grating / Plank Grating

CHEMICAL ABSTRACT SERVICE NUMBER: (CAS): 7429-90-5

FORMULA: Al

TRADE NAME: Wrought Aluminum Alloy Extrusions. Mill Finish, Anodized, Painted, 1xxx Alloys, 3xxx Alloys, and 6xxx Alloys

DOT IDENTIFICATION: N/A

HAZARD RATING: HEALTH = 0 (Negligible) FIRE = 1 (Slight) REACTIVITY = 1 (Slight)

SECTION II: Chemical Compounds

Aluminum alloy extrusions typically contain aluminum and one more of the ingredients listed below.

Ingredient	CAS Number	% by weight	OSHA PEL (mg/m3) Fume	OSHA PEL (mg/m3) Dust	ACGIH TLV (mg/m3) Fume	ACGIH TLV (mg/m3) Dust
Aluminum	7429-90-5	>95.0	5	15	5	10
Chromium	7440-47-3	<0.1*		1		0.5
Copper	7440-50-8	<0.3	1	1	0.2	1
Iron	7439-69-6	<0.8				
Magnesium	7439-95-4	<1.2		10	1	10
Manganese	7637-96-5	<0.2**	1	5 (Ceiling)	1	5
Silicon	7440-21-3	<1.0	10	10		10

* Alloy 6061 may contain from 0.1% to 0.2% Chromium which would be subject to SARA Section 313 reporting requirements.

** Alloy 3003 may contain from 1.0% to 1.2% Manganese which would be subject to SARA Section 313 reporting requirements.

SECTION III: Physical Data

Physical State: Solid (under, normal conditions)
Appearance: Metallic silver or gray

Odor: None
Boiling Point: 2450 c / 4450 F
Melting Point: 660 C / 1200 F

Specific Gravity: 2.7 (Water = 1)
Solubility in Water: None

Evaporation Rate: N/A
Vapor Pressure: 1 mm @ 1284 C

SECTION IV: Fire and Explosion Data

FLASHPOINT: N/A

AUTOIGNITION: N/A

In case of fire, use Class D extinguishing agent or dry sand. DO NOT use any Halogenated extinguishing agents.

Moisture trapped in molten aluminum may cause an explosion. If aluminum extrusions are melted, make certain no moisture or water is present on external surfaces or in any cavities. Damp aluminum dust, fines, or small chips may spontaneously heat and liberate hydrogen to form explosive mixtures.

Aluminum is spontaneously combustible (pyrophoric) and this should reflect labeling requirements for shipping (DOT) classification.

SECTION V: Reactivity Data

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBLE MATERIALS: Ammonium Nitrate. Strong Oxidizers, Halogenated Compounds, Water (when melting), Sodium Hydroxide

Acids and alkalis in contact with Aluminum may generate explosive mixtures of hydrogen. Consult National Fire Protection Association literature for more specific information.

SECTION VI: Health Hazard Data

ROUTES OF ENTRY: Inhalation (Applies to dusts, fumes, fines, etc. When fabricating and/or welding)

HEALTH HAZARDS: Aluminum alloy extrusions may produce dust and fines which are considered nuisance particulates.

Welding or machining of aluminum alloy extrusions may generate dusts and/or fumes which may cause irritation of the eyes, nose and throat. If aluminum is in an aerosol form, it has been implicated in Alzheimer's disease. Also, inhalation of finely divided powder has been reported as a cause of pulmonary fibrosis. Ozone may be produced as a by-product of welding or plasma arc cutting. Prolonged exposure to ozone may result in headache, nausea, and pulmonary edema.

Generally, if Aluminum exposures are kept below the OSHA Permissible Exposure Limits and Threshold Limit Values, the components present in this alloy should present no health concern.

CARCINOGENICITY: NTP = NO

IARC = NO

OSHA = NO

SIGNS AND SYMPTOMS OF EXPOSURE: Irritation of eyes, nose, and throat.

EMERGENCY AND FIRST AID PROCEDURES: If small particles or dust are in eyes immediately flush eyes with water for at least 15 minutes, If particle is embedded in eye, immediately seek professional medical attention for foreign body removal

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Pre-existing upper respiratory and lung diseases.

SECTION VII. Personnel Protective Equipment

- VENTILATION:** Adequate ventilation and local exhaust should be provided if PELs or TLVs are exceeded
- EYE PROTECTION:** Appropriate eye protection should be worn when grinding, sawing, welding (welding goggles) etc.
- SKIN PROTECTION:** Aluminum extrusions undergo no visual changes when heated to temperatures which can cause burns on contact Protective gloves are recommended while grinding, welding, sewing aluminum and handling extrusions.
- RESPIRATORY PROTECTION:** A NIOSH-approved respirator should be worn when PELs or TLVs are, or may be, exceeded.

SECTION VIII- Disposal Procedures

Aluminum scrap should be collected for recycling. Any other disposal should be done in accordance with applicable federal, state and local laws.

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information contained in this Material Safety Data Sheet (MSDS) is believed to be correct as it was obtained from sources which we believe are reliable, including: "Threshold Limit Values & Biological Exposure Indices for 2001" (American Conference of Governmental Industrial Hygienists), Air Contaminants - Permissible Exposure Limits (Title 29, CFR, part 1910.1000 - OSHA),

International Agency for Research on Cancer (IARC), and National Toxicological Program (NTP - PHS/DHHS). However, no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications, hazards connected with the use of the material, or the results to be obtained from the use thereof. User assumes all risks and liability of any use, processing or handling of any material, variations in methods, conditions and equipment used to store, handle, or process the material, and hazards connected with the use of the material are solely the responsibility for the user and remain at his sole discretion.

Compliance with all applicable federal, state and local laws and regulations remains the responsibility of the user, and the user has the responsibility to provide a safe work place, to examine all aspects of its operations and to determine if or where precautions, in addition to those described herein, are required.

Note: Chemical analysis has not been performed by AMICO. For actual compositions, please refer to "Certified Material Test Report" or specific grade specification sheets.

The information contained in the alloy composition sheets should not be used for ordering or specification purposes. Data supplied is referenced from alloy specification ranges/limits and is intended to provide the general chemical composition of the alloy.