



GRUPO

METMEX

METALES MEXICANOS

// About Us.

Our Mission is to supply Companies with World Class Quality raw materials for machined goods.

Always giving the best prices available in market without diminishing quality of our products by keeping correct levels of stock, fast supply chains and correct administrative management.

We focus on being experts in delivering raw materials following Just-In-Time Philosophy.



Aluminum Alloy Ingots Supply.

We supply Ingots of different Aluminum Alloys:

Alloy A380 (AA A380 / ANSI) – Very good Machining Char.

Standard for Die Casting

Alloy A383 & A384 (AA A384 / ANSI)

Stronger (hot cracking) workable at higher temperatures than A380

Alloy A360 (AA A360 / ANSI)

Elevated Corrosion Resistance

Harder to cast

High Ductility

High strength at high temperatures

Alloy A13 (AA A413 / ANSI)

High Pressure Tightness (good for containing high pressure compounds)



Aluminum Alloy Ingots Supply.

Alloy 390 (AA B390 / ANSI)

Resistance to wear

Low ductility

Widely use in Automotive Engine Blocks

Alloy 43 (AA C443 / ANSI)

Very High ductility

Moderate corrosion resistance

Difficult to cast

Used for Marine Grade applications

Alloy 218 (AA 518 / ANSI) – Magnesium Major Alloying

Some of the best machinability

High Strength

High Ductility

High Corrosion Resistance

Good Finishing

Difficult to cast

Other Aluminum Alloys.

201	A360	GD-ALSi8Cu	390	AO4431
204	AO3602	Al-Si8Cu3Fe	AO3902	305
242	SG 100A	383	B390	443
A242	GD-ALSi10Mg	AO3831	AO3901	35
295	Al-Si10Mg	JIS H5302 ADC12	LM28	S5B
319	380	384	413	123
328	AO3801	AO3841	13	LM18
355	306.308	313	AO4131	518
C355	SC84A-B	SC114A	305	218
356	I43	A143	S12A.B	AO5181
360	LM24	LM26	162	340
AO3601	JIS H5302 ADC10	A384	LM6	
309	A380	AO3842	JIS H5302 ADC1	
SG 100B	AO3802	303	A14132	
LM2	SC84-A		S12A	
JIS H5302 ADC3			43	

*Other Alloys may be requested



Table A-3-3 Die Casting And Other Characteristics: Al Alloys

(1 - most desirable, 5 - least desirable)

Commercial: ANSI/AA	Aluminum Die Casting Alloys										
	360 360.0	A360 A360.0	380 380.0	A380 A380.0	383 383.0	384 384.0	390* B390.0	13 413.0	A13 A413.0	43 C443.0	218 518.0
Resistance to Hot Cracking ^(A)	1	1	2	2	1	2	4	1	1	3	5
Pressure Tightness	2	2	2	2	2	2	4	1	1	3	5
Die-Filling Capacity ^(B)	3	3	2	2	1	1	1	1	1	4	5
Anti-Soldering to the Die ^(C)	2	2	1	1	2	2	2	1	1	4	5
Corrosion Resistance ^(D)	2	2	4	4	3	5	3	2	2	2	1
Machining Ease & Quality ^(E)	3	3	3	3	2	3	5	4	4	5	3
Polishing Ease & Quality ^(F)	3	3	3	3	3	3	5	5	5	4	1
Electroplating Ease & Quality ^(G)	2	2	1	1	1	2	3	3	3	2	5
Anodizing (Appearance) ^(H)	3	3	3	3	3	4	5	5	5	2	1
Chemical Oxide Protective Coating ^(I)	3	3	4	4	4	5	5	3	3	2	1
Strength at Elevated Temp. ^(J)	1	1	3	3	2	2	3	3	3	5	4

^(A) Ability of alloy to withstand stresses from contraction while cooling through hot-short or brittle temperature ranges. ^(B) Ability of molten alloy to flow readily in die and fill thin sections. ^(C) Ability of molten alloy to flow without sticking to the die surfaces. Ratings given for anti-soldering are based on nominal iron compositions of approximately 1%. ^(D) Based on resistance of alloy in standard type salt spray test. ^(E) Composite rating based on ease of cutting, chip characteristics, quality of finish, and tool life. ^(F) Composite rating based on ease and speed of polishing and quality of finish provided by typical polishing procedure. ^(G) Ability of the die casting to take and hold an electroplate applied by present standard methods. ^(H) Rated on lightness of color, brightness, and uniformity of clear anodized coating applied in sulphuric acid electrolyte. ^(I) Rated on combined resistance of coating and prolonged heating at testing temperature. Sources: ASTM B85-92a; ASM; SAE

* Two other aluminum alloys, 361 & 369, are being utilized in limited applications where vibration and wear are of concern. There are also other heat treatable specialty alloys available for structural applications, such as the Silafonts and AA365. Contact your alloy producer for more information.

Note: Die castings are not usually solution heat treated. Low-temperature aging treatments may be used for stress relief or dimensional stability. A T2 or T5 temper may be given to improve properties. Because of the severe chill rate and ultra-fine grain size in die castings, their "as-cast" structure approaches that of the solution heat-treated condition. T4 and T5 temper results in properties quite similar to those which might be obtained if given full T6 temper. Die castings are not generally gas or arc welded or brazed.

High Quality Guarantee & Material Analysis: Methods.

Here at  , we guarantee that the products supplied are of the best quality by performing highest level chemical composition tests:

- Nominal Density Verification
- X-ray Emission Spectrometry
- Optical Emission Vacuum Spectrometry
- Atomic Emission Vacuum Spectrometry
- X-ray Fluorescent Spectrometry (AFS)
- Atomic Absorption Spectroscopy (AAS)
- Spark Atomic Emission Spectrometry



Quality
First

// High Quality Guarantee & Material Analysis: Methods.

- Ultraviolet Spectrometry
- Direct Current Plasma Emission Spectrometry
- Specific Gravity Comparison Standards
- Electro Thermal Atomic Absorption Spectrometry
- Gravimetric Analysis
- Volumetric Analysis
 - Titration (Titrimetry)
 - Conductivity
 - pH
 - Potentiometer
 - Precipitation analysis
 - Thermometric Titrimetry





High Quality Guarantee & Material Analysis: Measurements

By performing high level analysis we guarantee in-spec concentration of elements in alloys, assure performance of alloy and uphold no-contamination materials specifications (ROHS). Measurements include :

- Ultimate Tensile Strength
- Yield Strength
- Elongation
- Hardness
- Shear Strength
- Impact Strength
- Fatigue Strength
- Young's Modulus (Stress)
- Density
- Melting Range
- Specific Heat
- Coefficient of Thermal Expansion
- Electrical Conductivity
- Thermal Conductivity
- Poisson's Ratio



Pure Industrial Minerals (Raw Material)

To fulfill intake of Metal Industries we supply pure material ingots non-ferrous metals such as:

- Pure Aluminum Ingots
- Pure Copper Ingots
- Pure Zing Ingots





Raw Pure Minerals

- Aluminium Ingots

Aluminum Ingot General Data	
CAS No.:	7429-90-5
Chemical Composition:	Al
Al (Min):	99.70%
Appearance:	Silvery White Metal
Product Name:	Aluminum Ingot
Property:	Clean and Smooth Surface, Low Melting Point, High Formability, High Press Productivity, Good Conductivity. Discontinuous melting with scrap. Fast Melting.
Application:	Automobile Industry, pinning and weaving, electron broadly, door making, windows, cans, among other things

Aluminum	
Metal	Typical Value
AL (%)	99.70 Min
Si (%)	0.10 Max
Fe (%)	0.20 Max
Cu (%)	0.01 Max
Ga (%)	0.03 Max
Mg (%)	0.02 Max
Zn (%)	0.03 Max
Mn (%)	-
Others (%)	0.03 Max





Raw Pure Minerals

- Magnesium Ingots

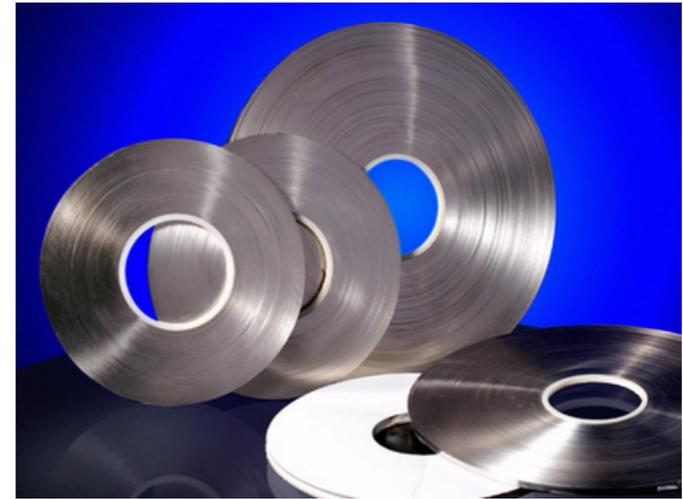
Magnesium Ingot Specification									
Specification	Mg	Fe	Si	Ni	Cu	Al	Ci	Mn	Total Impurities
	% (=>)	% (=<=)							
Grade 1	99.98	0.0002	0.0030	0.0005	0.0005	0.0040	0.0020	0.0020	0.0200
Grade 2	99.95	0.0030	0.0100	0.0010	0.0020	0.0100	0.0030	0.0150	0.0500
Grade 3	99.90	0.0400	0.0200	0.0010	0.0040	0.0200	0.0050	0.0300	0.1000
Grade 4	99.80	0.0500	0.0300	0.0020	0.0200	0.0500	0.0050	0.0500	0.2000

Magnesium Ingot General Data	
CAS No.:	7439-95-4
Chemical Composition:	Mg
Mg (Min):	99.8%-99.98%
Appearance:	Bright Color
Product Name:	Magnesium Ingot
Specifications:	Surface by acid wash and no oxidized



// Other Materials & Alloys

- Nickel Bar
- Nickel Strip
- Nickel Plate
- Nickel Coil
- Nickel Wire
- Ferrite Magnets Rings
- Cooper Stainless Steel
- Stainless Steel Wire
- Galvanized Wire
- Lead Ingots
- Ferrosilicon Powder
- Aluminium Ingots Pure and Alloys





Prices/Quotes

Feel free to ask for more information or request for quotation at our webpage:

www.metmex.com.mx

Or Contact us at email below:

sales@metmex.com.mx



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Thank You.