



WHY MAHARASHTRA METAL (INDIA)

What we do ?

- We source quality products from world class mills.
- We ensure of supplying at competitive price.
- We maintain high stock level in wide range of products at point time.
- We maintain faster lead time or delivery time.
- We strive to provide better after sale service.

At Maharashtra Metal (India), there is a constant effort to improve in all areas of operation. Plans are afoot to expand the existing Infrastructure for our fast growing operations.

Company Profile

MAHARASHTRA METAL (INDIA) an ISO CERTIFIED COMPANY, established in year 1971, is one of the leading and largest reliable Importer, Exporter, Stockiest of **Aluminium**. We enjoy good popularity in the market both **National and International** by our reliable quality and competitive price.

We are professionally engaged in **ALUMINIUM** Products, in the shapes of **Sheets / Plates, Chequered Plates, Coils, Square Bars, Pipes/Tubes, Strips, Flats, Round Bars, Hex Bars** in both Indian & Imported in all alloys, sizes, qualities which are extensively used in many fields such as aviation, ship, printing, automobile, home appliances, decoration and packaging as per customer's choice and specification. These products are widely appreciated in the market for their features like dimensional accuracy, robust construction, long life with low maintenance, sturdy design and corrosion resistance nature.

Our objective is "Serve you with high quality products, timely delivery, satisfactory services and at most competitive offers". Quality is our main identity. We wish to mention that we are procuring directly from manufacturers and keeping huge stock of all sizes and qualities. We are glad to serve all the facilities such as fabrication, cutting & bending under one roof with our highly equipped, trained and qualified person with complete customer satisfaction. Our high standard and guaranteed for quality products are mainly exported to South America, Europe, Africa, Southeast Asia, the Middle East and Japan and well recognized by customers from home and abroad. We are mainly importing the material from Europe, Russia, Singapore, Malaysia and China.

Our Subsidiary Company is the Authorized Dealer of

- Bharat Aluminum Company (BALCO)
- Jindal Aluminum Ltd.
- Alom Extrusion Limited

Customer's satisfaction is our main motto. For more details about our products, please follow up the photographs with grade and other detailed specification.



ROLLED PRODUCTS

COILS

Alloys	-	1xxx / 2xxx / 3xxx / 5xxx / 6xxx / 7xxx / 8xxx
Thickness	-	Coils 0.3mm - 6 mm
Standard Width	-	813mm - 1524 mm

Finishes available :

Mill finish surface (with clean residual oil or degreased by thermal treatment)

Marked by Labeling : other requirements according to relevant quality standards.

Coils available :

Up to 3mm (0.125") thickness, stress leveled, inside diameter 508 + 12.7mm (20+0.5") outside diameter 1524 mm(60") maximum.

sheets form may be delivered with Bureau Veritas, Germanischer Lloyd or Det Norske Veritas certificates produced according to their respective rules

SHEETS

Alloys	-	1xxx / 3xxx / 5xxx
Thickness	-	0.4mm - 6.00 mm
Standard Width	-	900mm - 1250 mm
Standard Length	-	1000mm - 6000mm

Technical Conditions :

Raised pattern types available : Stucco, diamond and fluted.

Embossing depths available : 0.25mm + 0.05mm (0.01 +0.002")

Finishes available :

Mill Finish surface (with clean residual oil or degreased by thermal treatment) stress leveled, marked by labeling, other requirements according to relevant quality standards.

Coils available with inside diameter of 508 + 12.7mm (20 +0.5") and a maximum outs of 1524mm (60").

CHEQUERED PLATES

Alloys	-	1xxx / 3xxx / 5xxx
Thickness	-	0.5mm - 8 mm
Standard Width	-	900mm - 1250 mm
Standard Length	-	2000mm - 4000mm
Temper		

Technical Conditions :

Raised pattern types available : Five bar, two bar, Diamond

Available height of raised pattern of 1.1mm - 1.5mm (0.059"0 on one side and a smooth surface on the other.

Finishes available :

Mill Finish surface (with clean residual oil or degreased by thermal treatment) marked by labeling, other requirements according to relevant quality standards.

PLATES

Alloys	-	1xxx / 2xxx / 3xxx / 5xxx / 7xxx
Thickness	-	6.3mm - 250 mm
Standard Width	-	900mm - 1550 mm
Standard Length-	-	1000mm - 6000mm

Technical Conditions :

Options available :

Plates cut Sawn or milled) of final length and width, ink jet continuous marking according to Aluminium Association Standards, ASTM or as per customer request, marked by labeling or stenciling, neutral paper interleaved, other requirements according to relevant quality standards.

Plates from 5083, may be delivered with Bureau Veritas, Germanischer Lloyd or Det Norske Veritas certificates, produced according to their respective rules.

PVC Protective Coating :

A thin film of protective PVC coating is available upon request, Coating available on one or both sides, Coating thickness : 70pm, See through and blue color available.



EXTRUSION PRODUCTS

EXTRUDED ROD



Alloy family	Size (A)		Length	
	mm	inch	mm	inch
2xxx	19.525 - 500.0	0.375 - 19.68	2000 - 6000	78.75 - 236.25
6xxx	4 - 533.4	0.157 - 21.00	2000 - 6000	78.75 - 236.25
5xxx	19.525 - 533.4	0.375 - 21.00	2000 - 6000	78.75 - 236.25
7xxx	19 - 508.0	0.748 - 20.00	2000 - 6000	78.75 - 236.25

EXTRUDED SQUARE BAR



Alloy family	Size (A)		Length	
	mm	inch	mm	inch
2xxx	12.7 - 406.4	0.50 - 16.00	2000 - 3658	78.75 - 144.00
6xxx	6 - 406.4	0.236 - 16.00	2000 - 3658	78.75 - 144.00
5xxx	19.05 - 177.8	0.75 - 7.00	2000 - 3658	78.75 - 144.00
7xxx	12.7 - 406.4	0.50 - 16.00	2000 - 3658	78.75 - 144.00

EXTRUDED HEXAGONAL BAR



Alloy family	Size (A)		Length	
	mm	inch	mm	inch
2xxx	19.05 - 60.0	0.75 - 2.36	3000 - 3658	1181 - 144.00
6xxx	8.00 - 60.0	0.315 - 2.36	3000 - 3658	1181 - 144.00
5xxx	8.00 - 60.0	0.315 - 2.36	3000 - 3658	1181 - 144.00
7xxx	19.05 - 60.0	0.75 - 2.36	3000 - 3658	1181 - 144.00

EXTRUDED FLAT BAR



Alloy family	Size (H)		Size (B)		Length	
	mm	inch	mm	inch	mm	inch
2xxx	3.0 - 400.0	0.25 - 15.75	20.0 - 480.0	0.75 - 18.90	2000 - 6000	78.75 - 236.25
6xxx	3.175 - 368.3	0.125 - 14.5	20.0 - 480.0	0.75 - 18.90	2000 - 6000	78.75 - 236.25
5xxx	3.0 - 400.0	0.25 - 15.75	20.0 - 480.0	0.75 - 18.90	2000 - 6000	78.75 - 236.25

EXTRUDED ROUND TUBE



Alloy family	Diameter (D)		Wall Thickness (S)		Length	
	mm	inch	mm	inch	mm	inch
6xxx	38.1 - 563.0	1.50 - 21.77	6.35 - 90.0	0.25 - 3.64	2000 - 6000	78.75 - 236.25
5xxx	38.1 - 563.0	1.50 - 21.77	6.35 - 90.0	0.25 - 3.64	2000 - 6000	78.75 - 236.25



Wrought Alloys Chemical Composition limits (per cent)

ALLOYS (ISS)	EQUIVALENT ALLOY (AA)		COPPER		MANGANESE		SILICON		IRON	MANGANESE		OTHER Total	REMARKS
	OLD	NEW	U.S.A.	MIN.	MAX.	MIN.	MAX.	MIN.		MAX.	MIN.		
1C	19000	1100	-	0.10	-	-	-	0.5	0.6	-	0.1	0.1	ALUMINIUM 99.0% MIN
-	-	1200	-	0.05	-	-	SL+FE	1.0	-	-	0.05	0.1	ALUMINIUM 99.0% MIN
1B	19500	1050	-	0.05	-	-	-	0.25	0.4	-	0.05	0.1	ALUMINIUM 99.5% MIN
1E	19501	-	-	0.04	-	-	-	0.15	0.35	-	0.03	0.1	ALUMINIUM 99.5% MIN
-	-	1350	-	0.05	-	-	-	0.10	0.40	-	0.01	0.1	ALUMINIUM 99.5% MIN
-	19600	1060	-	0.05	-	-	-	0.25	0.35	-	0.03	0.1	ALUMINIUM 99.6% MIN
-	19700	1070	-	0.03	-	-	-	0.2	0.26	-	0.03	0.1	ALUMINIUM 99.7% MIN
H 15	24345	2014	3.8	5.0	0.2	0.8	0.5	1.2	0.7	0.3	1.2	0.5	-
H 14	24534	2017	3.5	4.7	0.4	1.2	0.2	0.7	0.7	0.4	1.2	0.5	-
N3	31000	3003	-	0.1	-	0.1	-	0.6	0.7	1.0	1.5	0.4	-
-	-	3103	-	0.1	-	0.3	-	0.50	0.7	0.90	1.5	-	-
-	-	3105	-	0.3	0.2	0.8	-	0.60	0.7	0.30	0.8	-	-
N21	43000	4043	-	0.1	-	0.2	4.5	6.0	0.6	-	0.5	0.2	-
N2	46000	4047	-	0.1	-	0.2	10.0	13.0	0.6	-	0.5	0.2	-
N4	52000	5052	-	0.1	1.7	2.6	-	0.6	0.5	-	0.5	0.4	CR + MN = 0.5
N5	53000	5086	-	0.1	2.8	4.0	-	0.6	0.5	-	0.5	0.4	CR + MN = 0.5
N6	55000	5056	-	0.1	4.5	5.6	-	0.6	0.7	-	0.5	0.4	CHROMIUM UPTO 0.25
N8	54300	5083	-	0.1	4.0	4.9	-	0.4	0.7	0.5	1.0	0.4	CHROMIUM UPTO 0.25
H 20	65032	-	0.15	0.4	0.7	1.2	0.4	0.8	0.7	0.2	0.8	0.4	** CR=0.15-0.35%
-	-	6061	0.15	0.4	0.8	1.2	0.4	0.8	0.7	-	0.15	0.4	CHROMIUM 0.04 TO 0.35
H 9	63400	6063	-	0.1	0.4	0.9	0.3	0.7	0.6	-	0.3	0.4	-
-	-	6066	0.7	1.2	0.8	1.4	0.9	1.8	0.7	0.6	1.1	0.4	-
-	64423	-	0.5	1.0	0.5	1.3	0.7	1.3	0.8	-	1.0	-	-
91 E	63401	6101	-	0.05	0.4	0.9	0.3	0.7	0.5	-	0.03	0.1	-
-	64401	6201	-	0.1	0.6	0.9	0.5	0.9	0.5	-	0.03	0.1	-
H 30	64430	6351	-	0.1	0.4	1.2	0.5	1.3	0.6	0.4	1.0	0.3	-
-	-	6082	-	0.1	0.6	1.2	0.7	1.3	0.5	0.4	1.0	0.3	CHROMIUM UPTO 0.20
-	74530	7039	-	0.2	1.0	1.5	-	0.4	0.7	0.2	0.7	0.4	ZINC 4.0 - 5.0%
-	-	7075	1.2	2.0	2.1	2.9	-	0.5	0.5	-	0.3	0.2	ZINC (5.1 - 6.1) % & CHROMIUM (0.18-0.28)%
-	-	8011	-	0.10	-	0.05	0.50	0.90	1.00	-	0.20	0.1	-

Technical Specification
How Alloying Elements affect Aluminium

Series	Main Alloy	Effect on Alloying Elements
1000	Non (99% Aluminium)	Unalloyed aluminium is highly corrosion resistant, low strength, workable, conductive, non-heat-treatable.
2000	Copper Based	Gives strength, hardness, machinability, Heat-treatable.
3000	Manganese Based	Adds moderate strength, good workability. Non-heat-treatable.
5000	Magnesium Based	Moderate to high strength, Corrosion resistant. Non-heat-treatable.
6000	Magnesium & Silicon Based	Increase strength, formability, corrosion resistant. Heat-treatable.
7000	Zinc Based	For greatest strength, Heat-treatable.
8000	Non (97.3 - 98.9 % Aluminium)	Low Weight, Corrosion resistant, easy Maintenance.

Note : 1000, 3000, 5000, and 6000 alloys have good welding characteristics and corrosion resistant. 2000 and 7000 alloys have higher strength and better machinability, but lower weldability and corrosion resistant.

Importance of Aluminium :

- Lightweight with high strength / weight ratio.
- Corrosion resistant.
- Electrically / thermally conductive.
- Non-magnetic and non-conductive.
- Non-toxic and impervious.
- Aesthetically pleasing with a wide range of surface finishes.
- Good for decorative, functional or structural purposes.
- Very malleable and easily machined.
- Recyclable Aluminium is available in a wide range of alloys to suit different applications.

Core Area for supply :

- Defence Industries.
- Marine Industries.
- Mould Industries.
- Packaging Industries.
- Ship Building Industries.
- Aerospace Industries.
- Heavy Machinery Industries.
- Fabrication Industries.
- Building & Construction Industries.
- Engineering & Precision Machinery & Metal Works.
- Power & Transmission Industries.
- Automobile Industries.
- Transport Industries.

Sourcing services



Packaging and Delivery :-
Packaging and delivery options available, Wooden pallets ; Tightly bound with steel / PVC straps ; water proof packing with thermoshrinkable polyethylene and silica gel (desiccant) protection with corrugated cardboard and edge protections.



Special Request :-
Plates, Sheets, Coils and Round Bars with different size and specifications may be delivered depending on quantities and required technical conditions.



Maharashtra Metal (India)

An ISO Certified Company

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