

Aluminium Extrusion **Billets**



Aluminium Extrusion Billets

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Engineering Excellence Since 1967

Banco Aluminium Pvt. Ltd. manufactures high-quality aluminium extrusion billets using cylinder guided advanced casting and robust quality control systems to meet the demanding requirements of the aluminium extrusion industry. The company is focused on producing billets with superior metallurgical properties, uniform grain structure, and consistent performance, which are critical for precision extrusion applications.

The billets are manufactured using a carefully balanced combination of **primary aluminium and high-quality recycled aluminium**, ensuring both product reliability and sustainable manufacturing practices. Through strict process monitoring, advanced chemical analysis, and multiple stages of quality inspection, Banco Aluminium ensures that each billet meets the stringent standards required by both **domestic and international extrusion manufacturers**.

With its commitment to technology, quality, and sustainability, Banco Aluminium continues to strengthen its position as a trusted supplier to the aluminium extrusion industry.

Alloys

Alloys:

1050A, 1070A, 1100, 2011, 2017A, 2014, 3003, 6063, 6060, 6101, 6005, 6005A, 6082, 6351, 6061, 6066, 6262, 6026

*We also produce customised Alloys as per customer requirement

✓ Chemical Composition — Standard Alloys (wt%)

ALLOY	Si	Mg	Fe	Mn	Cu	Zn	Cr	Ti	Others each	Others total	Al	REMARKS
1070A	≤ 0.10	≤ 0.03	≤ 0.25	≤ 0.03	≤ 0.03	≤ 0.02	≤ 0.03	≤ 0.03	≤ 0.03	≤ 0.10	≥ 99.70	Pure aluminium grade
1100	≤ 0.30	≤ 0.05	≤ 0.30	≤ 0.05	0.05–0.10	≤ 0.10	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.15	≥ 99.00	Si + Fe ≤ 0.95
3003	≤ 0.20	≤ 0.05	≤ 0.25	1.05–1.15	0.05–0.09	≤ 0.10	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.15	REM.	—
6101	0.40- 0.47	0.48–0.55	≤ 0.20	≤ 0.03	≤ 0.03	≤ 0.03	≤ 0.03	≤ 0.01	≤ 0.03	≤ 0.10	REM.	Electrical conductor grade
6060	0.39-0.46	0.48–0.54	0.10–0.25	≤ 0.07	≤ 0.07	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.10	REM.	Architectural profiles
6063	0.48-0.55	0.48–0.55	≤ 0.30	≤ 0.10	≤ 0.10	≤ 0.10	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.15	REM.	Windows / doors / general extrusion
6005	0.56-0.64	0.45–0.53	≤ 0.25	≤ 0.10	≤ 0.10	≤ 0.10	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.15	REM.	Medium strength structural / Solar frame applications
6005A	0.62-0.70	0.50–0.58	≤ 0.25	0.20–0.28	≤ 0.10	≤ 0.10	≤ 0.10	≤ 0.05	≤ 0.05	≤ 0.15	REM.	Mn + Cr = 0.12–0.50 Transport / structural
6082	0.92-1.00	0.72–0.79	≤ 0.30	0.45–0.53	≤ 0.10	≤ 0.10	≤ 0.05	≤ 0.10	≤ 0.05	≤ 0.15	REM.	High strength structural
6061	0.60-0.70	0.90–0.98	≤ 0.35	≤ 0.13	0.18–0.25	≤ 0.10	0.08–0.14	≤ 0.10	≤ 0.05	≤ 0.15	REM.	Engineering / aerospace
6066	1.15-1.25	1.00–1.10	≤ 0.30	0.70–0.80	0.80–0.90	≤ 0.20	≤ 0.10	≤ 0.10	≤ 0.05	≤ 0.15	REM.	High-strength forgings
Custom	Specific alloys & customised chemical compositions produced to customer requirements — contact Banco technical team										On enquiry	

Available Sizes

Diameter	127 mm	152 mm	178 mm	229 mm	254 mm
Finished Length	5,800 mm Standard for all diameters				

Dimensional Tolerance

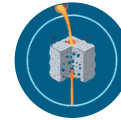
Diameter	$\pm 1\%$ of nominal diameter
Length	± 5 mm
Bow / Camber	2 mm per metre 10 mm maximum over full billet length
Cutting Angle	$90^\circ \pm 0.5^\circ$



Production Process



At Banco Aluminium, superior extrusion begins with our rigorous billet manufacturing process. Our advanced facility employs cutting-edge metallurgical technologies to produce high-purity, structurally consistent aluminium extrusion billets. We utilize a detailed four-stage process that includes precision metal filtration, nitrogen-purged treatment, Hot-Top casting, and controlled batch homogenizing, ensuring flawless surfaces and optimal extrudability for demanding applications.



Metal Filtration:

Online liquid metal filtration through Ceramic Foam Filters ensures removal of non-metallic inclusions and improved metal cleanliness.



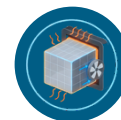
Metal treatment:

Advanced liquid metal refining through nitrogen purging for effective degassing and enhanced metallurgical quality.



Casting Technology:

Billets are produced using cylinder guided Hot-Top Casting Technology, ensuring superior speed and cooling control for better surface finish, skin thickness and consistent metallurgical structure.



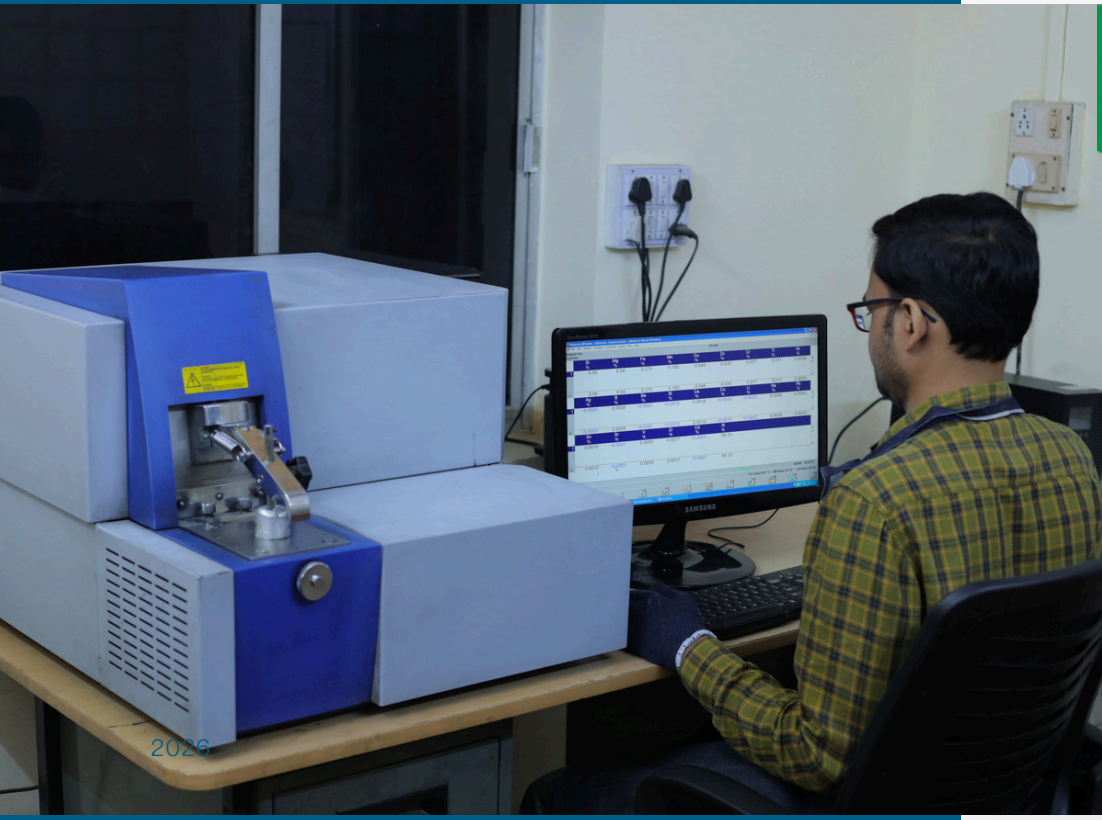
Homogenising:

Batch homogenising is carried out in controlled heating chambers followed by forced air cooling, ensuring uniform microstructure and improved extrudability.

Process Control & Product Quality:

We follow strict process monitoring and quality assurance practices:

- SCADA-based online process monitoring and traceability
- Use of Primary and Recycled Aluminium
- 100% Visual Inspection for external defects
- 100% Ultrasonic Testing for internal defects
- 100% Chemical Analysis using Spectromax Optical Emission Spectrometer



Packing

Billets are securely packaged in plastic-strapped bundles on runners, ensuring safe handling and convenient forklift movement during transportation and storage.



Product Identification:

Each billet is clearly marked with the alloy designation and cast number for full traceability.

BANCO
ALUMINIUM

Code: _____

Length (MM): _____

Dia (MM): _____

Alloy: _____

Cast Number: _____

Log Weight (KG): _____



Green Aluminium

Our integrated management system — certified to ISO 9001:2015 (Quality), ISO 14001:2015 (Environment) and ISO 45001:2018 (Occupational Health & Safety) — ensures that every tonne of aluminium we extrude is produced to the highest standards of quality, environmental care and worker safety. For automotive customers, we hold IATF 16949:2016. Our structural aluminium products carry CE marking under EN 15088:2005, approved by EU Notified Body 1922. Three BIS licences (IS 733, IS 1285, IS 5082) confirm compliance with Indian national standards for engineering and electrical applications. Our carbon footprint is independently measured and verified quarterly by MITCON Consultancy under ISO 14064-1 protocols.

Energy-Efficient Operations

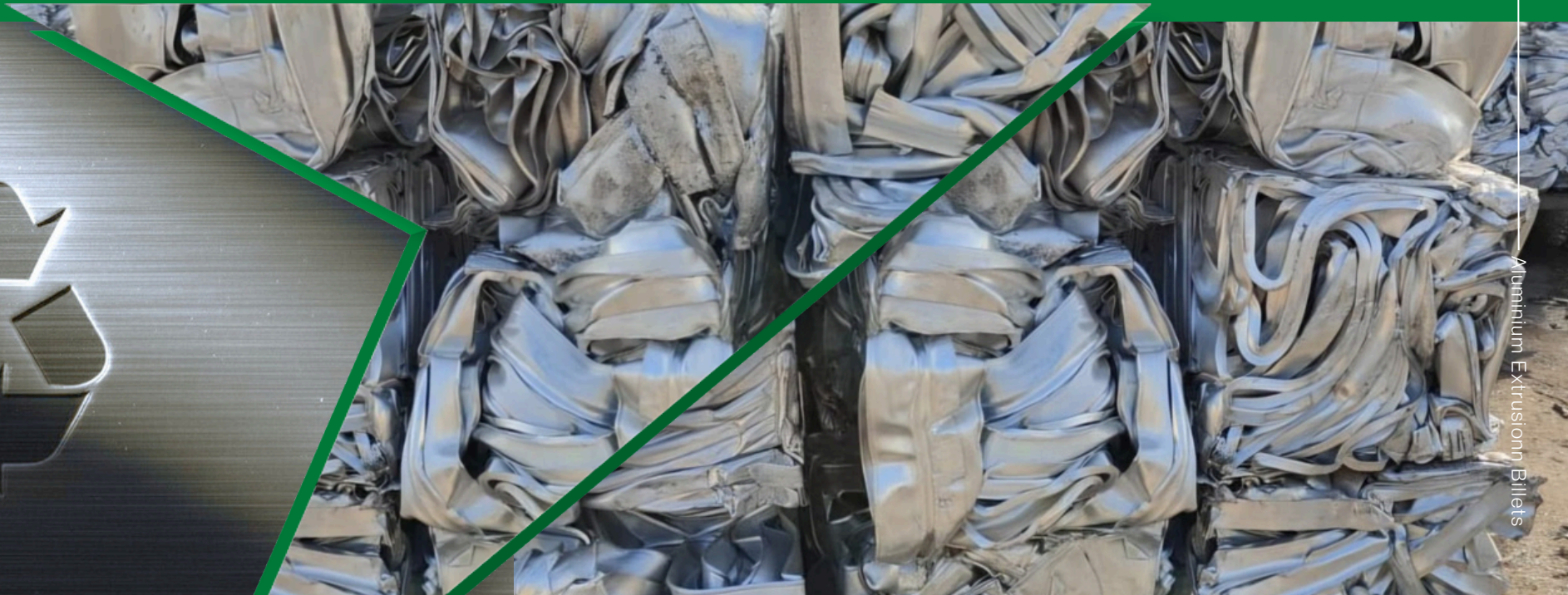
0.480 kgCO₂e per kg of aluminium — our lowest emission intensity, achieved at full production capacity.

Optimum use of Recycled Aluminium

Up to 95% less energy to recycle vs. primary production — available on request with full traceability

Environmentally Responsible Production

ISO 9001 · ISO 14001 · ISO 45001 · IATF 16949 · CE (EN 15088) · IS 733 · IS 1285 · IS 5082.
Verified to the highest national and international standards.



Contact Us

BANCO
ALUMINIUM

For technical specifications, quotation requests, sample orders, and application support, contact the Banco Aluminium commercial and technical team. Export enquiries and OEM supply discussions are welcome.

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