



HINDALCO EXTRUSIONS

EXPERTISE IS OUR STRENGTH



Consistent quality...
superior machining



Hindalco Machinable Extrusions

Hindalco Industries Ltd., the flagship company of the Aditya Birla Group, is India's leading Aluminium & Copper producer. A leader in the Extrusions Industry, Hindalco enjoys a dominant share in the industrial sector for applications such as automobile components; textile spindles and machinery components; hydraulic pumps, actuators, cylinders and valves; and a host of other machinery components apart from very special applications in the defence and space research sector.

Hindalco's branded Aluminium extrusions are marketed through a large distribution network across the country apart from direct sales. Hindalco products bear the hallmark of the company's rich experience of over 5 decades. The clientele list includes reputed names like Brakes India, Kalyani Brakes, Sundaram Clayton, Lakshmi Machine Works, MICO, Audco India amongst many others.

Specifications

Sr.No	Alloy Designation	Temper	CCD (mm)	Tensile Strength (Min) Kg / mm ²	0.2% Proof Stress (Min) Kg / mm ²	% Elongation on 50 mm (Min)
1	AA6351 / AA6082 / ALCAN B51S / IS64430	WP / T6	0 - 75	31.5	27.5	7.0
			75 - 150	30.1	27.5	7.0
			150 - 336	28.0	23.0	7.0
2	AA6061 / ALCAN D65S / IS65032	WP / T6	0 - 150	28.5	24.0	7.0
			150 - 200	25.0	20.4	6.0
3	AA6066 / ALCAN C62S / IS64423	WP / T6	75 - 150	34.0	31.5	7.0
			150 - 220	30.1	27.5	7.0

Chemical Composition (%)

Alloy Designation	Silicon (Si)	Iron (Fe)	Titanium (Ti)	Manganese (Mn)	Magnesium (Mg)	Copper (Cu)	Zinc (Zn)	Chromium (Cr)	Others Each	Others Total
AA6351 / ALCAN B51S / IS64430	0.60 - 1.30	0.60	0.20	0.40 - 1.00	0.40 - 1.20	0.10	0.10	0.25	0.05	0.15
AA6082	0.70 - 1.30	0.50	0.10	0.40 - 1.00	0.60 - 1.20	0.10	0.20	0.25	0.05	0.15
AA6061 / ALCAN D65S / IS65032	0.40 - 0.80	0.70	0.15	0.15	0.80 - 1.20	0.15 - 0.40	0.25	0.04 - 0.35	0.05	0.15
ALCAN C62S / IS64423	0.70 - 1.30	0.80	----	1.00	0.50 - 1.30	0.50 - 1.10	----	----	0.07	0.25
AA6066	0.90 - 1.80	0.50	0.20	0.60 - 1.10	0.80 - 1.40	0.70 - 1.20	0.25	0.40	0.05	0.15

Note: Single figure shows maximum limit.

Why Hindalco Extrusions for Industrial Applications?

- Manufactured from high quality billets made from in-house virgin metal and through state of the art Wagstaff Airslip™ technology, which
 - Minimizes contamination / impurities
 - Provides consistent grain structures ensuring uniform physical properties
 - Gives excellent surface finish
- Billets used are homogenized through a well controlled modern homogenizing facility ensuring superior & consistent metallurgical quality
- The extruded sections go through Artificial Ageing / Solution Heat Treatment facilities having precise controls as per established procedure to impart superior mechanical properties and thereby superior machinability
- Time tested, well established manufacturing process, QA systems & comprehensive testing facilities ensure
 - Compliance to national, international standards and specific customer requirements.
 - Recording crucial manufacturing / test data for traceability of material right from metal stage.
- Wide product range*:



*Typical ranges indicated

- Supply of control stretched sections for special applications.
- Quality Accreditation : Manufacturing units at Renukoot and Alupuram are ISO 9001: 2008, ISO 14001-2004 & OHSAS 14001-2007 certified.

For confirmation on specifications please contact our regional offices.



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