

Extrusions

Specifications:

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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

Applications:

- Manufactured from high quality billets made from in-house virgin metal and through state of the art Wagstaff Airslip technology, which a) Minimizes contamination / impurities b) Provides consistent grain structures ensuring uniform physical properties c) 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 a) Compliance to national, international standards and specific customer requirements. b) Recording crucial manufacturing / test data for traceability of material right from metal stage.
- Wide product range : a) Rods - upto 320mm diameter b) Flats - upto 425 mm width c) Tubes - upto 252.4 mm O.D