

Foils



Hindalco's foil stock is produced from high-quality rolling ingots and concast coils. Manufactured with sophisticated equipment, the foil stock is free of surface and sub-surface defects. Matching international quality standards, it can be rolled to thin gauges of aluminium foil for a number of applications.

Stringent quality checks ensure a world-class range of sheets, extrusions and foil products from Hindalco. Continuous upgrades and process improvement enable it to keep pace with the demands of its ever-growing markets.

Dimensions

Parameter	Range	Tolerance
Thickness (mm)	0.06 — 0.60	+/-5%
Width (mm)	690 — 1600, Deckle matching up to 1600 is preferred for width < 800	+2, -0
Coil LD (mm) on metal / paper core	203, 250, 305, 406, 508	-
Coil density (kg/mm)	1.5 — 3.5 5.5 subject to enquiry	-

Mechanical properties

Alloy (AA)	Temper	%E (min) (50mm gauge length)	UTS (mpa)		End use
			Min	Max	
1200	M**	2	125	165	Pharma, medium gauge
	H14	3*	105	140	
	H16	5*	90*	130*	
1235	M	2	125	165	Light gauge
8011	M	2	135	180	Pharma, cable warp
8079	M	1	130	170	Double-sided blister for >9 mic high

strength application

*Typical values

**M temper UTS range is for a typical thickness of 0.28 mm

Chemical composition

Alloy (%)	AA1200	AA1235	AA8011	AA8079
Fe	1.00	0.65	0.60 — 0.01	0.70 — 1.30
Si	(Fe + Si)	(Fe + Si)	0.50 — 0.90	0.05 — 0.30
Mg	-	0.05	0.05	-
Mn	0.05	0.05	0.20	-
Cu	0.05	0.05	0.10	0.05
Zn	0.10	0.1	0.10	0.1
Ti	0.05	0.06	0.08	-
Cr	-	-	0.05	-
Each (Others)	0.05	0.03	0.05	0.05
Total (Others)	0.125	-	0.15	0.15
Al	99	99.35	Remainder	Remainder

Single number indicates maximum content

Flatness

Less than 20 I units (typical)

Wedge

Within 0.7% (typical)

Coil build-up quality

Weave — 2 mm (max), total shift 5 mm (max)

Surface quality

Suitable for foil rolling

Applicable standards

ASTM - B -209M, Aluminium association — aluminium standards and data, Hindalco manufacturing limits (as applicable).

Packing

Foil stock is wrapped in HDPE fabric and hardboard, strapped with hoop iron and placed in an eye-to-sky or eye-to-wall position. Moisture protection is provided with silica gel packets.