



**COSMO**  
Premium Stainless Steel Tubing

SS Grade  
**300**  
Series

## STAINLESS STEEL (GRADE 300 SERIES)

IIL Cosmo is a (SS Grade 300 Series), rust resistant, premium stainless steel tube that can be used in a variety of ornamental applications.

IIL Cosmo (SS Grade 300 Series) are made in accordance to ASTM A240 & A554, JIS G-4305

IIL Cosmo (SS Grade 300 Series) are available in round, square and rectangle shapes in various sizes with thickness range from 0.8mm to 1.5mm. IIL Cosmo (SS Grade 300 Series) are available in bright, satin/euro and hairline surface finish.

### Applications:

- Handrails
- Furniture
- Fences
- Staircases
- Bathroom accessories
- Fire escapes
- Gardens

### Salient Features:

- Non-magnetic
- Excellent aesthetic appeal with high-end value for money
- Suitable for all in-door and outdoor uses (including coastal areas)
- Excellent formability, bendability and weldability
- Available in bright, satin/euro and hairline surface finish
- Special profiles & sizes can be produced on request
- Packaging: All tubes available in 6.1m (20ft) and are packed as per international standards

### Typical End Use:

- Hotels
- Shopping malls
- Kitchen and restaurant equipment
- Health Care centers
- Educational institutions
- Resorts and farm houses
- Swimming pools
- Religious places
- Recreational parks
- Metro stations
- Airports
- Beaches & beach huts

### Standards:

- ASTM A240
- ASTM A554
- JIS G-4305



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## Mechanical Properties:

Tensile Strength ksi. (Mpa)	Yield Strength ksi. (Mpa)	Elongation (%)	Hardness (HRB)
70 (485) min	25 (170) min	35 min	95 max

## Product Range:

Shape	Size		Thickness (mm) & *Kg/m			
	(Inch)	(mm)	0.8	1.0	1.2	1.5
Round	1/2	12.70	0.236	0.290	0.343	0.417
	5/8	15.90	0.300	0.370	0.438	0.536
	3/4	19.05	0.362	0.448	0.532	0.654
	1	25.40	0.489	0.606	0.721	0.890
	1 1/4	31.80	0.616	0.765	0.912	1.128
	1 3/8	35.00	0.679	0.844	1.007	1.248
	1 1/2	38.10	0.741	0.921	1.099	1.363
	1 2/3	42.70	0.832	1.035	1.236	1.534
	2	50.80	0.993	1.236	1.478	1.836
	2 1/2	63.50	1.245	1.552	1.856	2.309
Square	1/2 x 1/2	12.70 x 12.70	0.305	0.376	0.446	0.546
	3/4 x 3/4	19.05 x 19.05	0.466	0.577	0.687	0.847
	1 x 1	25.40 x 25.40	0.626	0.778	0.927	1.148
	1 1/4 x 1 1/4	31.80 x 31.80	0.788	0.980	1.170	1.451
	1 1/2 x 1 1/2	38.10 x 38.10	0.947	1.179	1.409	1.750
	2 x 2	50.80 x 50.80	1.268	1.580	1.891	2.352
Rectangle	1/2 x 1	12.70 x 25.40	0.466	0.577	0.687	0.847
	1 x 2	25.40 x 50.80	0.947	1.179	1.409	1.750

Note: All tubes are available in 6.1 (20ft) length and are packed as per international standards.

Cut to length facility is also available at additional cost. Theoretical tube weight at a density of 7900 Kg/m<sup>3</sup>

Sizes not mentioned above but fall in the following range can be produced on request.

- 9.50 mm to 63.50 mm (thickness 0.90 mm - 2.50 mm)

## Chemical Composition:

Element	301 (WT%)	304 (WT%)	316 (WT%)
Carbon	0.15	0.07	0.08
Maganese	2	2	2
Phosphorus	0.045	0.045	0.045
Sulfur	0.03	0.03	0.03
Silicon	1	0.75	0.75
Chromium	16-18	17.5-19.5	16-18
Nickel	6-8	8-10.5	10-14
Molybdenum	-	-	2-3
Nitrogen	0.1	0.1	0.1
Copper	-	-	-
Iron	balance	balance	balance

(Standards ASTM A240 & A554, JIS G-4305)



ISO 9001, ISO 14001, ISO 45001, API 5L, PSQA, UL & CE Mark Certified Company