

General Industry Tube ASTM A269

Standard Dimension

Outside Diameter		Wall Thickness(mm)								
ASTM A-269		1.00	1.20	1.50	1.65	2.00	2.11	2.77	3.05	3.4
in	mm									
0.315	8.00	○								
0.354	9.00	●								
0.472	12.00	○								
0.500	12.70	●	○							
0.630	16.00	●	●							
0.709	18.00	○	○							
0.748	19.00	●	●							
0.750	19.05	●	●		●					
0.874	22.20	○	○	○						
1.000	25.40	●	●	●	●	●				
1.252	31.80	●	●	●	●	●				
1.378	35.00		●	●		●				
1.500	38.10		●	●	●	●				
2.000	50.80		●	●	●	●				
2.50	63.50		●	●	●	●				
3.00	76.20		●	●	●	●				
4.00	101.60			●	●	●				
6.00	152.4					●	●	●	●	
8.00	203.2					●	●	●	●	●
10.00	254					●	●	●	●	●
12.00	304.8							●	●	●

○ =Made to order ● =Usual production Note:Other sizes required upon request

Permissible Variations in Dimensions

Group	Size, Outside Diameter, in.	Permissible Variations in Outside Diameter, in. (mm)	Permissible Variations in Wall Thickness, ⁴ %	Permissible Variations in Cut Length, in. (mm) ⁵		Thin Walled Tubes ^C
				Over	Under	
1	Up to 1/2	±0.005 (0.13)	±15	1/8 (3.2)	0	...
2	1/2 to 1 1/2 , excl	±0.005 (0.13)	±10	1/8 (3.2)	0	less than 0.065 in. (1.65 mm) nominal
3	1 1/2 to 3 1/2 , excl	±0.010 (0.25)	±10	3/16 (4.8)	0	less than 0.095 in. (2.41 mm) nominal
4	3 1/2 to 5 1/2 , excl	±0.015 (0.38)	±10	3/16 (4.8)	0	less than 0.150 in. (3.81 mm) nominal
5	5 1/2 to 8, excl	±0.030 (0.76)	±10	3/16 (4.8)	0	less than 0.150 in. (3.81 mm) nominal
6	8 to 12, excl	±0.040 (1.01)	±10	3/16 (4.8)	0	less than 0.200 in. (5.08 mm) nominal
7	12 to 14, excl	±0.050 (1.26)	±10	3/16 (4.8)	0	less than 0.220 in. (5.59 mm) nominal

Ordering Information

Orders for material under this specification should include the following, as required, to describe the desired material adequately:

- Quantity (feet, metres, or number of lengths)
- Name of material (seamless or welded tubes)
- Grade
- Size (outside diameter and nominal wall thickness)
- Length (specific or random)
- Optional requirements (heat treatment, hydrostatic or nondestructive electric test)
- Test report required (Inspection of Specification A 1016/A 1016M)
- Specification designation

Surface Condition

The tubes shall be pickled free of scale. When bright annealing is used, pickling is not necessary.

