

Glossary of Glass Tubing

1. **Airlines:** These are elongated air bubbles within the tubing or rod. They may be buried within the glass or open on the surface.
2. **Bow:** Bow is measured as the maximum deviation from a straight line connecting any two points on the tube.
3. **Check:** A fissure extending into the wall of tubing or rod.
4. **Chips:** A depression on the glass surface of tubing or rod caused by flaking of the glass.
5. **Cord:** An optical or surface effect usually in a narrow band caused by non-homogeneous glass.
6. **I.D.:** Inside Diameter of tubing.
7. **O.D.:** Outside Diameter of tubing.
8. **O.O.R.:** Out of Round - the difference between the minimum and maximum O.D. measurements made at the one point along a piece of tubing.



Tubing bow



Tubing I.D.



Tubing O.D.



Tubing O.O.D.



Tubing siding



Tubing wall

9. **Scuff-scratch:** Abrasion which might occur during the manufacturing process, shipping, storage or use.
10. **Siding:** This is the difference between the minimum and maximum wall thickness as measured at the end of the tube.
11. **Stones:** A piece of undissolved or crystallized refractory material of glass batch appearing in the glass as an opaque lump.
12. **Stress:** A condition of tension or compression existing within the glass.
13. **Taper:** The maximum gradual dimensional change in the O.D. of one end of the tubing or rod to the opposite end.
14. **Tubing End Finishes:**
 - a) Cut at Draw: Raw tubing ends are not fire-polished or glazed.
 - b) Cut and Fire-polished: Tubing is cut at draw and ends are fire-polished to heal (remove) sharp edges.
 - c) Trimmed: Tubing cut to a specific length.
 - d) Trimmed and glazed: Tubing cut to length and fire-polished to heal (remove) sharp edges.
 - e) Cut and Ground — Tubing is cut to length and the ends ground.
15. **Wall** The normal thickness of the glass between the inside and outside surfaces of the tubing.



Tubing taper

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