

Surface Finish Details / Implications / Specifications:

1. **Standard Stainless Steel Sheet Finish.** This is what we call 'Standard Finish' on a fabricated stainless steel tank.
 - a. **#2B** = Annealed, pickled and cold rolled, giving a bright smooth surface on the sheet metal. Weld joint areas are sanded and polished to provide a surface finish of similar quality, but will not look exactly the same.
2. **Typical Mechanically Polished Values.** These fall under the 'Deluxe Finish' category.
 - a. **#4** = Sanded with 150-180 grit abrasives, giving a surface finish that has "grainlines." Normally results in surface roughness values of 20 to 40 micro-inches. This level of finish is suitable for wetted parts in most pharmaceutical applications.
 - b. **#7 and #8** = Sanded with very fine abrasives, equivalent to 300-400 grit, and then polished with a buffing compound. Normally resulting in surface roughness values of less than 25 micro-inches. Suitable for 99.9% of the most stringent sanitary requirements. Leaves no pits or voids in the stainless steel surfaces which are in contact with the product.
3. **Typically Electropolished Values.** This also falls under the 'Deluxe Finish' category but is not included as normal finishing. Stainless steel parts are first mechanically polished to a high level (#7 or #8) then set to a vendor that uses a chemical process to finely smooth out the surface of the material. Common surface finish values are less than 15 micro-inches. This finish spec is called out for very sensitive process requirements, typically in the bio-pharmaceutical market.