

Cost Comparison

Cost ratio based on 304L=1.0 (3/8 pattern mill plate)

Duplex

- 2202 2101 = 0.83
- 2102 = 0.83
- 2304 = 0.96
- 2003/2404 = 1.26
-
- 2205 = 1.16
-
- 255/2507 = 1.85
- Z100 = 1.90
-
-
-
- Ni = 8.46 Mo = 12.76 Cr = 1.32

Austenitic

- 201LN = 0.86
- 304L = 1.00
-
- 316L = 1.25
-
- 317L = 1.66
-
-
- 317LMN = 2.04
- 904L = 2.72
- 6Mo = 2.83 – 3.46

Cost Advantage

- If a vessel design uses the Duplex SS's additional strength to decrease wall thickness **savings of up to 25% may be achieved for the fabrication** vs. a comparable austenitic grade.
- Machining cost savings may be considerable.
- Physical property advantages must be evaluated for process and fabrication cost savings.

DUPLEX COST SAVINGS

If you save weight (wall thickness reductions) :

- You reduce the amount of material needed for the project
- You reduce the labor costs (weldings of thinner plates)
- You reduce transportation costs
- You reduce erection costs
- You reduce structural costs (concrete...)



THINK ABOUT TOTAL COSTS

