

TYPE 305 EYELET QUALITY STAINLESS STEEL STRIP

Type 305 is used for applications requiring a low rate of work hardening and typically undergoes severe cold forming during fabrication. The higher nickel content slows the work hardening and makes it ideal for eyelet and other deep draw applications. Gibbs Interwire can supply Type 305 Eyelet Quality in the deep draw annealed condition per AMS 5514.

| Chemical Composition | % | Thickness Tolerances < 6" AMS2242 | Tolerance (inch) |
|----------------------|---------------|--------------------------------------|------------------|
| Carbon | .120 max | over .050 - .062 included | +/- .0030 |
| Manganese | 2.00 max | over .035 - .050 included | +/- .0025 |
| Silicon | 1.00 max | over .020 - .035 included | +/- .0020 |
| Phosphorus | .040 max | over .010 - .020 included | +/- .0015 |
| Sulfur | .030 max | under .010 | +/- 10% |
| Chromium | 17.00 – 19.00 | | |
| Nickel | 10.00 – 13.00 | | |
| Molybdenum | .750 max | | |
| Copper* | .750 max | | |

MECHANICAL PROPERTIES

| Condition | Tensile Min PSI | Yield Min PSI | Elong % Min | Hardness (Reference) |
|-----------|--------------------|------------------|---|-------------------------|
| Annealed | 75,000 | 30,000 | Less than .025" – 45% .025" and over – 50% | 92 HRB max |

| Additional Information | | |
|------------------------|---------------------------------|-----------------|
| Width Tolerance | +/- .003 | |
| Camber Tolerance | Up to and including 1.500" wide | .500" in 8 feet |
| | Over 1.500" wide | .250" in 8 feet |
| Edges Available | #3 Slit edge | |
| | #5 Deburred edge | |
| | #1 Round edge | |

The above charts are intended to provide general background information. You should also review the appropriate material specification. Please contact Gibbs Interwire if you have any questions.

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