

## Comparison of Mechanical Properties

|                                 | Stainless Steel |              |              |              | Carbon Steel  |
|---------------------------------|-----------------|--------------|--------------|--------------|---------------|
|                                 | AISI 201 SS     | AISI 301 SS  | AISI 304 SS  | AISI 316 SS  | GCS 1045-1055 |
| Ultimate Tensile Strength [PSI] | 115,000         | 110,000      | 80,000       | 90,000       | 80,000        |
| Elongation Properties [%]       | 55              | 60           | 45           | 45           | 14            |
| Mechanical Properties [HRB]     | 90-95           | 85-90        | 70-90        | 70-85        | 80-95         |
| Electrical Properties           | Non-Magnetic    | Non-Magnetic | Non-Magnetic | Non-Magnetic | Magnetic      |

