

STUD WELDING PRODUCTS, INC

Your Number One Stud

ARC LOAD STRENGTHS

| STUD MATERIAL | STUD SIZE | SUGGESTED FASTENING TORQUE (INCH LBS) | ULTIMATE TENSILE LOAD (LBS) | MAXIMUM SHEAR LOAD (LBS.) |
|---------------------|-----------|---------------------------------------|-----------------------------|---------------------------|
| LOW CARBON STEEL | 1/4-20 | 65 | 2300 | 1720 |
| | 5/16-18 | 129 | 3740 | 2800 |
| | 3/8-16 | 212 | 5550 | 4160 |
| | 7/16-14 | 338 | 7630 | 5710 |
| | 1/2-13 | 465 | 10200 | 7650 |
| | 5/8-11 | 1000 | 16300 | 12200 |
| | 3/4-10 | 1259 | 24000 | 18000 |
| | 7/8-9 | 1919 | 33300 | 24900 |
| 1-8" | 2832 | 43600 | 32700 | |
| STAINLESS STEEL | 1/4-20 | 75.2 | 2880 | 2160 |
| | 5/16-18 | 132 | 4680 | 3500 |
| | 3/8-16 | 236 | 6920 | 5190 |
| | 7/16-14 | 376 | 9600 | 7200 |
| | 1/2-13 | 517 | 12800 | 9600 |
| | 5/8-11 | 1110 | 20200 | 15150 |
| | 3/4-10 | 1530 | 30000 | 22500 |
| | 7/8-9 | 2328 | 41600 | 31200 |
| 1-8" | 3440 | 54500 | 40900 | |
| ALUMINUM ALLOY 5000 | 1/4-20 | 40 | 1360 | 850 |
| | 5/16-18 | 70 | 2300 | 1400 |
| | 3/8-16 | 81 | 3250 | 2100 |
| | 7/16-14 | 140 | 4400 | 2400 |
| | 1/2-13 | — | 5950 | 3000 |

Low Carbon Steel

Mechanical Properties

- Tensile Strength: 60,000 PSI Min
- Yield Strength: 50,000 PSI Min
- Elongation in 2": 20% min

Stainless Steel Type 302/304/305/316

Mechanical Properties

- Tensile Strength: 85,000 PSI Min
- Yield Strength: 40,000 PSI Min
- Elongation in 2": 45% min

Aluminum Alloy 5000

Mechanical Properties

- Tensile Strength: 42,000 PSI Min
- Yield Strength: 30,000 PSI Min

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