

STAINLESS STEEL

UNC/UNF THREADED RODS

| STAINLESS<br>STEEL<br>GROUP | CONDITION | ALLOY<br>MECHANICAL<br>PROPERTY<br>MARKING | NOMINAL<br>DIAMETER | FULL SIZE TESTS              |                            |                      | MACHINED SPECIMEN TESTS      |                            |            |
|-----------------------------|-----------|--------------------------------------------|---------------------|------------------------------|----------------------------|----------------------|------------------------------|----------------------------|------------|
|                             |           |                                            |                     | TENSILE<br>STRENGTH<br>(KSI) | YIELD<br>STRENGTH<br>(ksi) | ROCKWELL<br>HARDNESS | TENSILE<br>STRENGTH<br>(KSI) | YIELD<br>STRENGTH<br>(ksi) | ELONGATION |
|                             |           |                                            | RANGE               | RANGE                        | MIN                        | RANGE                | MIN                          | MIN                        | MIN        |
| 1                           | AF        | F593A                                      | 1/4 -11/2           | 65-85                        | 20                         | B85 (MAX)            | 60                           | 20                         | 40         |
| 1                           | A         | F593B                                      | 1/4 -11/2           | 75-100                       | 30                         | B65-95               | 70                           | 30                         | 30         |
| 1                           | CW1       | F593C                                      | 1/4 -5/8            | 100-150                      | 65                         | B95-C32              | 95                           | 60                         | 20         |
| 1                           | CW2       | F593D                                      | 3/4 -11/2           | 85-140                       | 45                         | B80-C32              | 80                           | 40                         | 25         |
| 1                           | SH1       | F593A                                      | 1/4 -5/8            | 120-160                      | 95                         | C24-C36              | 115                          | 90                         | 12         |
| 1                           | SH2       | F593B                                      | 3/4-1               | 110-150                      | 75                         | C20-C32              | 105                          | 70                         | 15         |
| 1                           | SH3       | F593C                                      | 11/8-11/4           | 100-140                      | 60                         | B95-C30              | 95                           | 55                         | 20         |
| 1                           | SH4       | F593D                                      | 13/8-11/2           | 95-130                       | 45                         | B90-C28              | 90                           | 40                         | 28         |
| 2                           | AF        | F593E                                      | 1/4 -11/2           | 65-85                        | 20                         | B85 (MAX)            | 60                           | 20                         | 40         |
| 2                           | A         | F593F                                      | 1/4 -11/2           | 75-100                       | 30                         | B65-95               | 70                           | 30                         | 30         |
| 2                           | CW1       | F593G                                      | 1/4-5/8             | 100-150                      | 65                         | B95-C32              | 95                           | 60                         | 20         |
| 2                           | CW2       | F593H                                      | 3/4 -11/2           | 85-140                       | 45                         | B80-C32              | 80                           | 40                         | 25         |
| 2                           | SH1       | F593E                                      | 1/4 -5/8            | 120-160                      | 95                         | C24-C36              | 115                          | 90                         | 12         |
| 2                           | SH2       | F593F                                      | 3/4-1               | 110-150                      | 75                         | C20-C32              | 105                          | 70                         | 15         |
| 2                           | SH3       | F593G                                      | 11/8-11/4           | 100-140                      | 60                         | B95-C30              | 95                           | 55                         | 20         |
| 2                           | SH4       | F593H                                      | 13/8-11/2           | 95-130                       | 45                         | B90-C28              | 90                           | 40                         | 28         |
| 3                           | AF        | F593J                                      | 1/4 -11/2           | 65-85                        | 20                         | B85 (MAX)            | 60                           | 20                         | 40         |
| 3                           | A         | F593K                                      | 1/4 -11/2           | 75-100                       | 30                         | B65-95               | 70                           | 30                         | 30         |
| 3                           | CW1       | F593L                                      | 1/4-5/8             | 100-150                      | 65                         | B95-C32              | 95                           | 60                         | 20         |
| 3                           | CW2       | F593M                                      | 3/4 -11/2           | 85-140                       | 45                         | B80-C32              | 80                           | 40                         | 25         |
| 3                           | SH1       | F593J                                      | 1/4 -5/8            | 120-160                      | 95                         | C24-C36              | 115                          | 90                         | 12         |
| 3                           | SH2       | F593K                                      | 3/4-1               | 110-150                      | 75                         | C20-C32              | 105                          | 70                         | 15         |
| 3                           | SH3       | F593L                                      | 11/8-11/4           | 100-140                      | 60                         | B95-C30              | 95                           | 55                         | 20         |
| 3                           | SH4       | F593M                                      | 13/8-11/2           | 95-130                       | 45                         | B90-C28              | 90                           | 40                         | 28         |

Reference ASTM F593 2024

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**Bremick Pty Ltd**  
Head Office | 88 Dalmeny Avenue, Rosebery 2018  
National Distribution Centre | M5/M7 Logistics Park,  
Warehouse 4B, 290 Kurrajong Road, Prestons NSW 2170  
[www.bremick.com.au](http://www.bremick.com.au)