# TRU-FIT PRODUCTS • TRU-WELD

QUALITY WELD STUDS, STUD WELDING EQUIPMENT AND FASTENERS SINCE 1928

Atlanta • Calgary • Chicago • Dallas • Denver • Houston • Kansas City • Las Vegas • Medina
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AMERICAN PRODUCERS SUPPLY CO.
PO BOX 1050

MARIETTA OH 45750

CA08-130-11

CA 1/2 X 8-1/8 HEADED WELD STUD B/W

| PO NUMBER | SHIPMENT NUMBER | ORDER NUMBER | CERT DATE | CERT QUANTITY |
|---|---|---|---|---|
| P1526607 | 5036819 | 65051120 | 11/26/2024 | 80 |

## CERTIFICATION

This is to certify that this product has been manufactured to conform to: STANDARD AASHTO M169 / AWS D1.1-20 / D1.5-20/ BS EN ISO 13918 Specifications of material conforming to ASTM A108-18/ A29-20 , BS EN 10204 3.1, S235 JRC, BS EN10025 low carbon steel, CSA W59-18 APPENDIX H AND CSA S6-19 CLAUSE 10.4.7. having the following chemical composition and physical properties:

| | | | | |
|---|---|---|---|---|
| LOT NUMBER: | 391724331 | | | |
| HEAT NUMBER: | 20964480 | | | |
| GRADE: | C1015 | | | |
| MATERIAL ORIGIN | DOMESTIC (USA) | | | |
| CHEMICAL COMPOSITION | | | | |
| CARBON: | 0.160 % | | | |
| MANGANESE: | 0.510 % | | | |
| PHOSPHORUS: | 0.008 % | | | |
| SULPHUR: | 0.003 % | | | |
| NICKEL | 0.050 % | | | |
| CHROMIUM | 0.070 % | | | |
| MOLYBDENUM | 0.020 % | | | |
| ALUMINUM | 0.024 % | | | |
| SILICON | 0.250 % | | | |
| COPPER | 0.100 % | | | |
| BORON | 0.0001 % | | | |
| CEV | 0.27 % | | | |
| MECHANICAL PROPERTIES | | | | |
| REFERENCE | TW24-538 1 | | TW24-538 2 | |
| ULTIMATE | 72,715 | PSI | 72,992 | PSI |
| | 501 | N/mm2 | 503 | N/mm2 |
| YIELD (0.2% OFFSET) | 51,513 | PSI | 51,721 | PSI |
| | 355 | N/mm2 | 357 | N/mm2 |
| REDUCTION OF AREA | 67.5 | % | 67.3 | % |
| ELONGATION | 31.3 | % | 31.3 | % |
| BEND TEST | PASSED | | PASSED | |
| FAILURE LOCATION | SHANK | | SHANK | |

Mechanical properties above are derived from finished product using ASTM A370 testing procedures. TFP Corporation certifies that this is a copy of the original mechanical certification on file, that this product is melted and manufactured in the U.S.A., is free from mercury contamination and is free from repair welding.

By: Samuel T Ray

Samuel T Ray
Q.A. Manager
Tru-Weld Division
TFP Corporation