

SS-T16-S-065-20
PO 8008025



CERTIFIED MATERIAL TEST REPORT

Certified in accordance with EN 10204 - 3.1

CUSTOMER PO NUMBER	MILL ORDER NUMBER	CERTIFICATION NUMBER	CERTIFICATION DATE
621593-8008025	2168-10	TDI000920	10/31/2022 R0

MANUFACTURER: TUBACEX DURANT, INC. 362 COUNTRY CLUB RD DURANT, OK 74701 USA	CUSTOMER: SWAGELOK GRANDE PRAIRIE #100, 11025 89 AVENUE GRANDE PRAIRIE AB T8V 5B9 CANADA
--	---

PRODUCT DESCRIPTION:

BRIGHT ANNEALED 1.000''OD X 0.065''AW TP316/TP316L SEAMLESS TUBING

TECHNICAL REQUIREMENTS:

ASME SA213/SA213M-21, ASTM A213/A213M-21b, ASTM A269/A269M-15a(2019), SCS-00062-C

MARKING:

TUBACEX DURANT INC. - 1.000"OD x 0.065"AW - TP316/TP316L SMLS ASME SA213/SA213M, ASTM A213/A213M, ASTM A269/A269M - NACE MR0175 / MR0103 - NDE - COLD DRAWN/ANNEALED - MADE IN USA - HEAT# 560939 / 2168-10

PACKAGING INFORMATION:

PACKED PIECES	PACKED WEIGHT (LBS)	PACKED FOOTAGE (FT)
87	1,300	1,740

OES CHEMICAL COMPOSITION (CHECK ANALYSIS PERCENTAGE BY WEIGHT)

HEAT NO	LOT NO	MELT COUNTRY	MELT SOURCE	RAW MATERIAL VENDOR	STEEL MAKING PROCESS
560939	2168-10	SWEDEN	SMT SANDVIKEN	PEXCO	EF

HEAT NO	C	Mn	Ni	Si	S	Cr	P	Cu	Mo	N	Co	Ti	Nb+Ta	Fe	Al
REQUIREMENTS:	MIN	0.000	0.000	10.000	0.000	0.005	16.000	0.000	INFO	2.000	INFO	-	-	-	-
	MAX	0.035	2.000	14.000	1.000	0.015	18.000	0.045	-	3.000	-	-	-	-	-
560939/L	0.014	1.580	11.330	0.400	0.0070	16.920	0.031	0.320	2.040	0.072	0.110	-	-	-	-
560939/C	0.015	1.590	11.470	0.400	0.0050	16.980	0.033	0.330	2.060	0.071	0.100	-	-	-	-

MECHANICAL PROPERTIES (TENSILE TESTED LONGITUDINALLY)

HEAT/LOT NO	SAMPLE	TEMP (F)	SAMPLE SIZE (IN)	TENSILE STRENGTH (PSI)	YIELD STRENGTH (PSI)	EL (%)	HARDNESS
REQUIREMENTS:				75,000 min	30,000 min	35 min	HRBW 90 MAX
560939/2168-10	6	70	1.0000 X 0.0680	97,700	50,900	47.5	83.6

Flare Test - PASS

Flattening Test - PASS

Eddy Current Test - PASS

100% Positive Material Identification performed


Plug shot through all tubes for ID cleaning

Heat treated at 2000 °F min for sufficient time to achieve uniform temperature throughout the wall thickness and atmospherically quenched

In accordance with NACE MR0175 / ISO15156

Material is DFARS compliant.

- * Cold drawn - Made in USA
- * Product without contact with Mercury or other metal that are liquid at ambient temperature. Radioactive free.
- * No class I ozone depleting chemicals were used in the manufacture of this product.
- * Product without weld repair.

<p>WORKS INSPECTOR:</p>  <p>Ricardo Monroy Quality Manager USA Date: 10/31/22</p>
--

We hereby certify that the material herein has been manufactured and tested in accordance with the listed specifications and that all the results of all tests conform to specification. This test report shall not be reproduced except in full without the written approval of Tubacex Durant, Inc.