

M12420

4" VENTURI NOZZLE (A051405-7622G)

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CERTIFIED MILL TEST REPORT

For additional copies call:
(888) 682-7337

Tom Carter
Quality Assurance Manager

HEAT NO.: A051405-Y6229	S O L D T O	S H I P T O	SHIP#:
SECTION: RD 6-1/4			BOL #:
GRADE: 1022 MOD EF VD NORMALIZE			INV #:
CHEMICAL ANALYSIS		CUST PO#:	
		CUST P/N:	

	%	MECHANICAL	PROPERTIES					
			TEST 1		TEST 2		TEST 3	
			IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC
C	0.20	Yield Strength	54 KSI	369 MPA	26 FTLB	35 J	26 FTLB	35 J
Mn	0.89		79 KSI	541 MPA				
P	0.012	Tensile Strength	30 %	30 %	-50 FAH	-46 CEL	-50 FAH	-46 CEL
S	0.007	Elongation	2 IN	60 %				
Si	0.28	Gauge Length	60 %	60 %	-50 FAH	-46 CEL	-50 FAH	-46 CEL
Cu	0.23	Reduction of Area	22 FTLB	30 J				
Cr	0.11	Bend Test	-50 FAH	-46 CEL	-50 FAH	-46 CEL	-50 FAH	-46 CEL
Ni	0.11	Diameter	143 BHN					
Mo	0.030	Charpy Impact	4.43:1		-50 FAH	-46 CEL	-50 FAH	-46 CEL
Cb	0.000	Test Temp						
V	0.002	Sample Size			-50 FAH	-46 CEL	-50 FAH	-46 CEL
Sn	0.012	Orientation						
B	0.0001	Hardness			-50 FAH	-46 CEL	-50 FAH	-46 CEL
Ti	0.002	RR						
C.Eq.	0.40	Austenitize			-50 FAH	-46 CEL	-50 FAH	-46 CEL
Al	0.027	Temper						
N	0.010				-50 FAH	-46 CEL	-50 FAH	-46 CEL

Bradken MTR Review		
Review	Signature	Date
PS & MTR to PO, MTR to AML		
MTR to Drawing BOM		3-24-11

NTEMP 1725 FAH
NTIME 27 MIN

JOMINY RESULTS - Rockwell C hardness at 1/16th Inch increments												GRAIN SIZE		INCLUSION RATING					
1	2	3	4	5	6	7	8	9	10	11	12	METHOD	METHOD						
												E112	TYPE						
13	14	15	16	18	20	22	24	26	28	30	32	RESULT	SIZE	T	H	T	H	T	H

100% MELTED AND MANUFACTURED IN THE USA AND FREE OF MERCURY CONTAMINATION IN THE PROCESS

REMARKS: SHEAR 10, 10, 10 LAT EXP 19, 24, 24 MEETS REQUIREMENTS OF ASTM A350-95B-2004 LF2 CL1 A105-95B-2005, A675 GR 70, A696-90A-1990 GD C
ASME SA350-89-2004 GR LF2, SA105-2005, SA675 GR 70, AND ASME SA696-1990 GR C, ALSO MEETS NACE MR01-75 & ASTM A350 SUPPL S6
CERTIFICATE PREPARED TO EN 10204 3.1.B & DI 3.1.B. NO WELD REPAIR. MERCURY FREE. YIELD TAKEN AT .2% OFFSET

AUG-06-2010 15:11

Certified a true copy of the original, retained in our file.
AMERICAN ALLOY STEEL

AK 9-25-10

6-1/4" Dia.
SA-350 LF-2 SA-675 Gr. 70 Dark
SA-105 SA-696 Gr. C Green HT. A051405 Yellow

03/15/2011 From: AMERICAN ALLOY STEEL
P.O.# : 205018
Item : 2 (121 PC) 6-1/4" X 6.25" DIA X 12.75" LONG
: TAG: PN 0215111153

To: BRADKEN CANADA LTD. D
AA PL#: 6.25A05140

S.O.# : 387032