

NIPPON STEEL & SUMITOMO METAL CORPORATION WAKAYAMA WORKS [KAINAN AREA] 260-100, FUNOO, KAINAN, JAPAN

INSPECTION CERTIFICATE

CERTIFICATE NO. : BYYF7691U

PAGE: 1/2 DATE: 2018-02-22

CUSTOMER

:TRANS AM PIPING PRODUCTS LTD.

ORDER NO.

:CI-17-637 ITEM NO. 9

SHIPPER

:SUMITOMO CORPORATION 057 KEQ 0807/1 7P19S274115

COMMODITY

:SEAMLESS HOT FINISHED CARBON STEEL PIPE WITH BEVELED ENDS :ASTM A333M-16 / ASME 2015 EDITION SA-333M GR. 6

STANDARD

SPECIFICATION TSC-2285R3

MILL WORK NO. BYYF7691

0, D. :88, 9mm W. T. :7.62mm LENGTH:12192mm QUANTITY:50pcs. MASS:9350kg

HEAT NO.

:J7LC615

PRODUCTS PCS. :50

HEAT TREATMENT : QUENCHED & TEMPERED (910°C X 10min. W.Q. & 640°C X 20min. A.C.)

MELTING

:BASIC OXYGEN

DEOXIDATION

:KILLED

CHEMICAL COMPOSITION (%)

		+1	С	Si	Mn	P	S	Cu	Cı	Ni	Мо	Ti	V	Nb	В:	*CEQ	
		LT.				#2	*2					*2			*3		
SPEC. MIN.		L	-	10	29		-	-	-	-	_		-	_	_	_	
MAX.	otto e constitui	L	30	200-30	106	25	25	40	30	40	12	_	8	2	_	40	
HEAT NO.											- 14						
J7LC615		L	6	26	129	12	2	1	16	2	4	9	0	0	1	20	
*1 L:LADLE AN	NALYSIS	*2:	X1000	*3	:X100	00 0	THER:	X100						- Libe	3700		

^{*}CEQ:C+F (Mn/6+Si/24+Cu/15+Ni/20+(Cr+Mo+V+Nb)/5+5B) F=COEFFICIENT BY CSA STANDARD

FOR EACH REDUCTION OF 0.01% CARBON BELOW 0.30%, AN INCREASE OF 0.05% MANGANESE ABOVE 1.06% IS PERMITTED TO A MAXIMUM OF 1.35% MANGANESE.

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	*1 *2	YS *3		TS *3		EL %	
SPEC. MIN.	L B	М	240	М	415	29	
MAX.	L B	M		M	-		
HEAT NO.							
J7LC615	L B	М	410	М	511	37	
=	L B	М	412	M	511	36	
	L B	М	401	M	505	35	

*3 UNIT M: MPa GAUGE LENGTH: 50.0mm KIND OF YS: 0.5% EXTENSION UNDER LOAD

IMPACT TEST (-56.0°C 2mm V-Notch 10X5.00)

	*1 *2	*3 *4				AVG	*3	*4				AVG	
SPEC. MIN.	L B	E J	*5	7/	9	9	L	М	*6	-		_	
MAX.	L B	E J		-/	-	-	L	М		94		(44)	
		1	[1]	[2]	[3]				[1]	[1] [2]	[3]		
HEAT NO. J7LC615	L B	E J	179	183	180	181	L	М		1.82			

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE IN ACCORDANCE WITH THE RULES OF THE CONTRACT.

YUJIN ITO

HEAD OF DEPARTMENT QUALITY ASSURANCE DEPARTMENT

NO. 584175K18







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[1] [2] [3]: SPECIMEN NO.

ABSORBED ENERGY *5: VALUE OF ONE PIECE/EACH VALUE OF TWO PIECES AVG: AVERAGE VALUE OF ONE SET (3 PIECES)

LATERAL EXPANSION *6:VALUE OF ONE PIECE AVG: AVERAGE VALUE OF ONE SET (3 PIECES)

*1 SAMPLING DIRECTION L:LONGITUDINAL *2 SAMPLING POSITION B:BASE METAL *3 E:ABSORBED ENERGY L:LATERAL EXPANSION

*4 UNIT J: Joule M:mm

FLATTENING TEST: ACCEPTABLE VISUAL & DIMENSIONS: ACCEPTABLE

HYDROSTATIC TEST 17. OMPaX5sec.: ACCEPTABLE

ULTRASONIC EXAMINATION: ACCEPTABLE

(NPS3 XS 40FT) EN 10204 3.1

NACE MR0175/IS015156, NACE MR0103/IS017945 HARDNESS: GUARANTEED

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YUJIN ITO

HEAD OF DEPARTMENT

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Fax. No. : +81-3-6867-4926 E-mail:pipe-ipp@jp.nssmc.com NO. 584175K18



