

# MATERIAL INSPECTION CERTIFICATE

To EN10204 3.1/ISO 10743.1

THAI BENKAN CO.,LTD. **BENKAN**<sup>®</sup>

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Purchaser Name : SILBO INDUSTRIES, INC

TBC PO No. : SF-225

Customer PO No. : 70766



Benkan No. :

JOB No. :

D/M/Y 22/05/2021 Certificate No. : T202114001380 Rev. No. : 0

<b>Specification for Product</b>	ASTMA403/A403M/20ASME SA403/SA403M/19							MFG No.		64CWED010-1				Seamless or Weld		WELD		Pipe/Plate	PIPE
	NACE MR0175/ISO 15156-3: 2015							Product Description		90EL WP304W/304LW 3 S405								Quantity	10
Specification for Inspection	ASME B16.9-2018/B16.25-2017																		
Starting Material	Heat No.		VCA093065					Heat treatment		SOLUTION ANNEALING : 1060C X 30MINUTES W.Q.									
% Chemical content	C x100	Si x100	Mn x100	P x1000	S x1000	Ni x100	Cr x100	Mo x100											
Required Maximum	30	100	200	45	30	1,100	2,000												
Required Minimum						800	1,800												
Heat Analysis	22	44	126	30	1	805	1,827												

Tension test		Gauge length		50 mm.		Hardness test													
TP Direction : Longitudinal				HRB		Req Max		90											
MPa	Req.Min.	Req.Max.	Actual results			Fitting	68												
Yield Strength	205		315															Visual Examination	Good
Tensile Strength	515		670															Dimensional Inspection	Good
% Elongation	28		56															1000% PM:	Good

Supplementary Note :															We hereby certify that the product described herein has been manufactured in accordance with the specifications concerned and also with the purchaser's requirements and that the test results shown herein are correct.     Akemitsu Kondo Quality Assurance Manager Thai Benkan Co.,Ltd.			
Material is manufactured mercury free and free from mercury contamination																		
The fittings are in accordance with the PED 2014/68EU																		
The raw material manufacturer has detected it to free from radioactive contamination																		
The fittings was manufactured, sampled, tested, and inspected in accordance with the specification																		