

# CERTIFICATE OF MATERIAL

\* According to EN 10204:2004 (E) 3.1

Specification : ASTM A479 TYPE316/316L (STRAIN-HARDENED 2)  
Material Mfr. : YAMASHIN STEEL CO., INC.  
Customer : Aman Engineering  
Project Name :

CAS No. :  
Certificate No. : HD202503-1274  
PO No. : PO-AEE-25-0070  
POR No. : ENER PROCESS FZ- LLC  
Date of issue : Mar-13-2025

HCD No	Description (Part Name)	Q'ty
JSK	Hex Long Nipple 1/2 NPT L51(H-SNL-8NL51)	14 EA

**Chemical Composition(%)**

C	Si	Mn	P	S	Ni	Cr	Mo							
0.030 max	1.00 max	2.00 max	0.045 max	0.030 max	10.00- 14.00	16.00- 18.00	2.00- 3.00							
0.014	0.20	1.74	0.037	0.023	10.04	16.15	2.62							

**Mechanical Properties**

Yield Strength MPa	Tensile Strength MPa	Elongation (%)	Reduction of Area (%)	Hardness ( )
515 min	655 min	25 min	40 min	
649	735	36	72	

Remarks ISSUE No. : -  
 \* Visual & Dimensional Inspection : Good  
 \* Mechanical Tested According to ASTM A370  
 \* Grain Size Result : 5  
 \* Solution Treatment 1060°C WQ  
 \* Intergranular Corrosion Test : Good

We hereby certify that the material herein has been made and tested in accordance with the above specification and also with the requirements called for by the above order.

\_\_\_\_\_  
(Customer / Third Party)



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Manager of Quality Assurance Dept.