

# CERTIFICATE OF MATERIAL

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

Specification : ASTM A182 F316/F316L  
Material Mfr. : HY-LOK FORGING CORPORATION  
Customer : Aman Engineering  
Project Name :

CAS No. :  
Certificate No. : HD202503-1264  
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
H7U	Female Elbow 1/2"OD-1/2 NPT(ACLF8-8N)	52 EA

**Chemical Composition(%)**

C	Si	Mn	P	S	Ni	Cr	Mo	N						
0.030 max	1.00 max	2.00 max	0.045 max	0.030 max	10.00- 15.00	16.00- 18.00	2.00- 3.00	0.10 max						
0.021	0.380	1.290	0.0334	0.0111	10.038	16.513	2.033	0.0378						

**Mechanical Properties**

Yield Strength MPa	Tensile Strength MPa	Elongation (%)	Reduction of Area (%)	Hardness ( )
205 min	515 min	30 min	50 min	
285	594	62	75	

Remarks  
 \* Visual & Dimensional Inspection : Good  
 \* Mechanical Tested According to ASTM A370  
 \* Solution Annealed  
 \* immediately W.C after forging (Material Heating Temperature 1150°C±50°C)  
 \* NACE MR0175/ISO 15156

ISSUE No. : -

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.