



Management System  
ISO 9001:2015  
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## Certificado de Calidad

IT020305 rev.01

N° NN-20905

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Descripción	Código	Cantidad	Certificado
ENTRERROSCA ½" NPT x ¼" NPT	122S0804		AA-781
Componentes	Material	Certificado	
BARRA HEXAGONAL 22.2mm	AISI 316L	AA-781	

### Protocolo de ensayo :

Tipo		Presión de trabajo	Estado	Presión de prueba	Estado	Tiempo
Hidráulico	1	15.000 PSI	Ok	16.500 PSI	Ok	60 segundos

### Dimensional:

Se controlaron las roscas con el calibre correspondientes dando como resultado satisfactorio. Se controlaron también la rugosidad superficial y las dimensiones generales dando un resultado satisfactorio.

### Visual/Funcional:

Se controlaron la porosidad, rebabas, ensamblado, terminación superficial y su función mecánica dando como resultado: satisfactorio

### Observaciones :

Se certifica que las piezas descritas fueron construidas de acuerdo a lo indicado en nuestros estándares internos, que se cumplen de acuerdo a un sistema de Gestión de Calidad certificado ISO 9001:2015, manteniendo en archivo los certificados correspondientes a cada material.

Firma: **INDUSTRIAS NELSON**

S.A.

AA-781

805-01 al 805-31

DELIVERY CONDITION		LENGTH REQUEST	TRADE MARK	ORIGINAL	STANDARDS	METLING PROCESS					
A		6 MTS	CHENMING	CHINA	ASTM A276/A484	EF/AOD/MEMS.					
<b>STAINLESS BRIGHT ROUND BAR AND HEX BAR</b>											
ORDER DETAILS						MECHANICAL PROPERTIES (Testing methods as per ASTM A370)					HEAT No.
SIZE (MM or IN)	GRADE	SHAPE	NET WEIGHT (KGS)	FINISHING	HEAT TREATMENT °C	HARDNESS (HBN)	0.2% PROOF STRENGTH MPA	TENSILE STRENGTH MPA	ELONGATION %	REDUCTION OF AREA %	
38.1MM	304L	ROUND BAR	435	BRIGHT	1050	172	468	569.0	43	62	HT2212201
50.8MM	304L	ROUND BAR	779	BRIGHT	1050	172	468	569.0	43	62	HT2212201
63.5MM	304L	ROUND BAR	756	BRIGHT	1050	169	470	672.0	41	60	HT2212202
76.2MM	304L	ROUND BAR	656	BRIGHT	1050	169	470	672.0	41	60	HT2212202
88.9MM	304L	ROUND BAR	594	BRIGHT	1050	169	470	672.0	41	60	HT2212202
101.6MM	304L	ROUND BAR	775	BRIGHT	1050	169	470	672.0	41	60	HT2212202
9.52MM	316L	ROUND BAR	252	BRIGHT	1050	213	550	785.0	45	67	HT2212203
12.7MM	316L	ROUND BAR	359	BRIGHT	1050	213	550	785.0	45	67	HT2212203
15.88MM	316L	ROUND BAR	523	BRIGHT	1050	182	489	699.0	45	65	HT2212204
19.05MM	316L	ROUND BAR	773	BRIGHT	1050	182	489	699.0	45	65	HT2212204
22.22MM	316L	ROUND BAR	968	BRIGHT	1050	182	489	699.0	45	65	HT2212204
25.4MM	316L	ROUND BAR	1535	BRIGHT	1050	182	489	699.0	45	65	HT2212204
28.6MM	316L	ROUND BAR	987	BRIGHT	1050	182	489	699.0	45	65	HT2212204
31.7MM	316L	ROUND BAR	721	BRIGHT	1050	182	489	699.0	45	65	HT2212204
35MM	316L	ROUND BAR	507	BRIGHT	1050	182	489	699.0	45	65	HT2212204
50.8MM	316L	ROUND BAR	589	BRIGHT	1050	182	489	699.0	45	65	HT2212204
63.5MM	316L	ROUND BAR	764	BRIGHT	1050	180	483	690.0	44	64	HT2212205
76.2MM	316L	ROUND BAR	446	BRIGHT	1050	180	483	690.0	44	64	HT2212205
14.3MM	316L	HEX BAR	2552	BRIGHT	1050	217	545	778.0	43	65	HT2212206
15.88MM	316L	HEX BAR	1081	BRIGHT	1050	211	538	768.0	41	63	HT2212207
17.4MM	316L	HEX BAR	1621	BRIGHT	1050	211	538	768.0	41	63	HT2212207
20.63MM	316L	HEX BAR	1581	BRIGHT	1050	211	538	768.0	41	63	HT2212207
22.22MM	316L	HEX BAR	2539	BRIGHT	1050	211	538	768.0	41	63	HT2212207
28.6MM	316L	HEX BAR	1068	BRIGHT	1050	211	538	768.0	41	63	HT2212207
CHEMICAL ANALYSIS (Testing methods as per ASTM A751)											
HEAT NO.:	% C	% Si	% Mn	% P	% S	% Cr	% Ni	% Mo	% Cu	-	
HT2212201	0.021	0.46	1.03	0.0031	0.002	18.11	8.04	-	0.18		
HT2212202	0.022	0.44	1.05	0.0029	0.002	18.13	8.04		0.2		
HT2212203	0.014	0.47	1.03	0.0026	0.001	16.65	10.16	2.23	-		
HT2212204	0.016	0.46	1.02	0.0028	0.001	16.57	10.21	2.18	-		
HT2212205	0.017	0.45	1.01	0.0027	0.002	16.68	10.19	2.21	-		
HT2212206	0.015	0.45	1.02	0.0027	0.001	16.74	10.21	2.22	-		
HT2212207	0.019	0.48	1.03	0.0028	0.002	16.65	10.22	2.15	-		
ULTRASONIC TESTING -NDT						REMARKS					
						*Free from radioactivity-verified through Gamma Ray Spectrometer *Free from mercury contamination *No welding has been performed on the material *Third-party heat treatment furnace calibrated as per Annexure M *Visual & Dimensional inspection-OK					
We confirmed that the material is manufactured & supplied in accordance to the Purchase Order						SIGNATURE:					
CHENMING STAINLESS STEEL For Better Future											

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