



# MATERIAL CERTIFICATE

PS07/F2  
rev.1

ISO 9001: approved  
CE 2014/68/EU: approved

JCFV CERTIFICATE  
P.O. Nº :326846  
DATE:25.02.2020

EN 10204 – 2.2  
MAT. CERT. Nº: 34981.1-BOLT/NUTS  
DATE :06.03.2023

COMPONENT : BOLT

SPECIFICATION / MATERIAL :  
ASTM A193 Gr. B8M CL.1 Ed.20

HEAT TREATMENT:  
SOLUTION 1050°C\*2.5H+WATER COOLING.

MACRO ETCH TEST:  
SATISFACTORY

CHEMICAL COMPOSITION %										PHYSICAL PROPERTIES						
	C	Mn	S	P	Si	Cr	Ni	Mo		Yield St.	Tensile St.	Elonga Tion	Reduc. Area	Hard-ness	Impact Strength ISO V	T.
Min	-	-	-	-	-	16.0	10.0	2.00								
Max	0.08	2.00	0.030	0.045	1.00	18.0	14.0	3.00								
Heat Nº	Qty									Min Mpa	Min Mpa	Min %	Min %	Max HB	Min J	°C
										205	515	30	50	223		
<b>BOLT</b>																
<b>E46002</b>	<b>240</b>	0.03	1.03	0.001	0.028	0.40	16.01	10.02	2.04	255	590	38	60.5	210		

COMPONENT : NUT

SPECIFICATION / MATERIAL :  
7/8"-9/ ASTM A194 Gr. 8M Ed.20a

HEAT TREATMENT: SOLUTION 1050°C\*2.5H+WATER COOLING.

MACRO ETCH TEST:  
SATISFACTORY

CHEMICAL COMPOSITION %										PHYSICAL PROPERTIES						
	C	Mn	S	P	Si	Cr	Ni	Mo		Yield St.	Tensile St.	Elonga Tion	Reduc. Area	Hard-ness	Impact Strength ISO V	T.
Min	-	-	-	-	-	16.00	10.00	2.00		-	-	-	-	126		
Max	0.08	2.00	0.030	0.045	1.00	18.00	14.00	3.00		-	-	-	-	300		
Heat Nº	Qty									Mpa	Mpa	%	%	HB	J	°C
<b>NUT</b>																
<b>072-1081</b>	<b>240</b>	0.05	1.12	0.003	0.023	0.42	16.19	10.19	2.21					207		

## REMARKS

- 1.- Visual inspection: accepted according PS04/I1 OR PS04/I9 (Standard) JC IT. Other information: no major repairs carried out.
- 2.- We certify that the above material has been manufactured and processed according to requirement of the above P.O.
- 3.- The results above indicated are exact transcription from the corresponding certificates , which are filed in our factory, issued by our homologated suppliers.

JC FABRICA DE VALVULAS, S.A.U.  
Quality Control Dep.



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