

TEST REPORT QUALITY CERTIFICATE



Product	Hexagonal Forged Nut	Contract N° / Ref. PO	PO 00926-24
Date	30-04-24	Standard	GB/T699-2015
Ref. Purchase Order	4501048241	Quantity	50000 x 22mm B
Commodity	Improved Carbon Structural Steel Round Bar	Raw Material Specification	Φ30

Certificate No.	WI10777751
Rolling Batch No.	0241200867
Grade	Steel #45
Number of Packages	17

TEST REPORT OF CHEMICAL COMP.

Item	Test	Unit	Result
1	C	%	0,44
2	Si	%	0,24
3	Mn	%	0,59
4	P	%	0,018
5	S	%	0,005
6	Ni	%	0,006
7	Cu	%	0,012
8	Lower Yield Strenght	N/mm2	400
9	Strength of Extension Rm	N/mm2	670
10	Elongation A	%	21
11	Macrostructure		Qualified
12	Hot Forging		Qualified

\*\* There in no Cd, Hg, Hexavalent Chromium, PBB, PBDE found in the tests

Testing Result (Surface Hardness <HRC>)

Product:	22mm B Steel Nut	Material:	45 # Steel		
Technical request	28-32 HRC	Treatment:	Hardening and tempering		
22mm B	1	29	22mm B	6	30
	2	30		7	29,5
	3	30,5		8	30
	4	29		9	29
	5	31		10	31,5

Dimensiones inspection report (mm)

NORMA DE	ASTM A194					
No.	1	2	3	4	5	
1	De	Φ44.5	Φ44.5	Φ44.4	Φ44.5	Φ44.3
2	H	43	43	43	43,1	43
3	H1	22	21,8	21,8	21,9	21,3
4	E	32	32,2	32,1	32,1	31,9
5	D	Φ22.2	Φ22.3	Φ22.2	Φ22.3	Φ22

