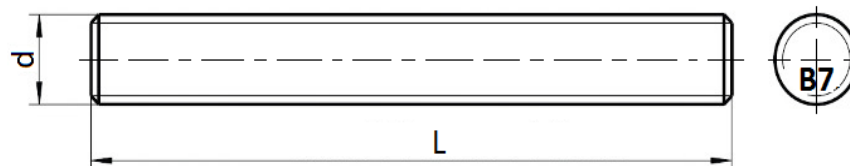




Date:	1401/12/14	Certificate:	1401-288
Serial No:	1	Customer Name:	Amir Kabir Petrochemical Co.
Order Description:	Stud Bolt	Customer Project No :	APS-0030450

Product Descriptions		Dimensional Requirements		Result
Size:	3/4"×100-10UNC	According to:	ASME B18.31.2	OK
Material Standard:	Astm A193	Threads:		
Grade:	B7	According to:	ASME B1.1	
Heat Treatment:	Quenched & Tempered	Tolerance Class:	2A	
Hardness:	277 ~ 321 HB	Coating:	Black Oxide	
Qty.:	1170	Mark:	FP B7	

Standard			Sample Size 24	
			Result	OK
			Min	Max
d	18.85	± 0.10	18.84	18.87
L	100.00	+ 1.00	100.00	100.40



Chemical Composition									
C	Si	Mn	P	S	Cr	Mo	Ni	V	Cu
0.42	0.17	0.80	0.005	0.005	1.08	0.18	0.05	0.005	0.03

HARDNESS TEST (ASTM E10 / 2012)	
Acceptance Standard	Result
Max 321 HB	279 ~ 287 HB


 Quality Control Dep
 Q.C. SUPERINTENDENT