

MANUFACTURERS TEST CERTIFICATE - EN 10204 3.1

Certificate No:-**KE/76045/609/2019/14/1602** Dt:- **23.11.2019**
 Name of Customer : **NA**
 FINISH : **PLAIN**
 Raw material supplier : **ARJAS STEEL**
 Purchase order # **1118694**
 Size : **64x600**

Invoice # **1602** dated **19.11.2019**
 Material Description : **Bolt blanks 10.9 grade**
 Grade : **10.9**
 Raw material supplier certificate number : **2019/00122268**
 Internal RM tracibility No : **912**
 Heat/PLC number : **280~285**

Chemical analysis as per DIN EN ISO 898:1-2013								Heat treatment details				
HEX BOLT												
Material / Description	C%	Mn%	Si%	P %	S %	Cr.%	Mo.%	Raw material number	Heat/PLC number	Minimum Tempering Temp.	Actual Tempering Temp.	
Specified	Min	0,20	-	-	-	-	-					
Max	0,55	-	-	0,025	0,025	-	-					
M-64x600	0,44	0,84	0,28	0,012	0,005	1,14	0,237	912	280~285	425 C	570 C	
Mechanical properties as per DIN EN ISO 898:1-2013												
SIZE	Qty Pc	Brinell Hardness tests	Hardness Hrc	Tensile strength (Mpa)	0.2% Proof stress	Elongation	Reduction in Area	Breaking load	Original Cross section area	Original gauge length	Reduced cross section area	Elongated length
Nom		316	32	1000	900	9%	48%	" Kn "	" So "	" Lo "	" Su "	" Lu "
Min		375	39	1040	940							
Max												
M-64x600	180	338	36-38	1076.98	986.52	10.04%	52.54%	1712.00	1,589.63	200.00	754.39	220.07
Dimensions as per DIN EN ISO 4014								HV Test reports				
SIZE	Pcs.Cheched	k	s	e	ds	b	l	r	c	dw	Result	
Min		39,50	92,80	104,86	63,26	NA	596,50	2,00	0,30	88,16		
Max		40,50	95,00	-	64,00	NA	603,50		1,00			
M-64x600	1	40.47	93.61	107.22	63.95	NA	601.51	3,00	0.65	89.41	Ok	
M-64x600	2	40.41	93.63	107.29	63.85	NA	601.20	3,00	0.67	88.54	Ok	
M-64x600	3	39.84	93.65	107.08	63.91	NA	601.50	3,00	0.74	88.82	Ok	
M-64x600	4	39.95	93.62	107.44	63.91	NA	600.52	3,00	0.55	88.91	Ok	
M-64x600	5	40.11	93.65	107.05	63.94	NA	602.00	3,00	0.54	89.45	Ok	

Tested By



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356 EPIP, Phase 3 HSIDC
 Kundli Ind Area, Sector 53
 Sonipat, Haryana, INDIA

UNIT - 2
330 EHTP, Phase 5 HSIDC
 Kundli Ind Area, Sector 56
 Sonipat, Haryana, INDIA

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