QUALITY CERTIFICATE

Customer:	NSS FASTENERS	Date :	2016-12-23
Product:	DIN960	Contract No:	16JDNSS324Y
Class:	8.8	Invoice No:	16-00076779
Size:	12X15X70	Lot No:	3444750002
Marking:	JDF 8.8	Order No.	446076
Quantity:	5.610 mpcs	Part No.	AMF96012070150
		Production Date	2016-12-02
Dimensions Of SPEC:		Certificate No.:	201612100053

Inspection Items		Standard	Result	Sample	Pass
Visual Appearance		----------	OK	20	20
Body Diameter		11.73-12	11.79-11.79	20	20
Thread	Go	6gT	OK	20	20
	No Go	6gZ	OK	20	20
Width Across Flats		19-18.67	18.74-18.80	20	20
Width Across Corners		min 21.1	21.43-21.44	20	20
Major Diameter		11.732-11.968	11.85-11.86	20	20
Head Height		7.68-7.32	7.45-7.54	20	20
Total Length		69.4-70.6	70.34-70.40	20	20
Thread Length		min 30	31.5-32.5	20	20
Key Engagement		/	/	20	20
Head Diameter		/	/	20	20
Mechanical Properties					
CharacTeristics		Standard	Result		
Surface Hardness	[30N]	22-32	27-29.5	10	10
Core Hardness	[HRC]	22-32	27-29.5	10	10
Wedge Strength	[Mpa]	min 800	911-928	8	8
Tensile Strength	[Mpa]	min 800	913-914	8	8
Yield Strength	[Mpa]	min 640	691-702	8	8
Elongation	[%]	min 12	13-14	8	8
Reduction Of area	[%]	min 52	53.7-54.3	8	8
Proof Load	[kN]	51.1	51.1	4	4
Impact test	[Akv/J]	min 27	29.0-30.0	6	6
Decarburization		E≥1/2H1 HV0.3	304.14 297.07 315.02	6	6
HV2>=HV1-30,HV3<=HV1+30		G 0.015max		6	6

CHEMICAL COMPOSITION(%)

Heat No		C	Si	Mn	P	S	Cr	Ni	Cu	Mo	B
XG35ACR	351605826	0.35	0.03	0.74	0.016	0.010	0.27	0.01	0.01		
Thickness [UM]								20		20	

Surface Coating: BLACK

Thread S... ISO 965-1 1998:LIMITS OF SIZES FOR GENERAL PURPOSE EXTERNAL AND INTERNAL SCREW THREADS - MEDIUM QUALITY

sa... g dimension spec... ion: ISO3269 2000 inspection and quality assurance for high-volume machine assembly fasteners

D... nsion Specification: DIN 960-1990, HEXAGON HEAD BOLTS WITH FINE PITCH THREAD(PRODUCT GRADES A AND B)

... ...ing mechanical properties specification: ISO3269 2000 Standard Guide for Fastener Sampling for Specified Mechanical Properties and Performance Inspection

Mec... l Properties: ISO 898-1 2013, MECHANICAL PROPERTIES OF FASTENERS MADE OF CARBON STEEL AND ALLOY STEEL -PART 1:BOLTS, SCREWS AND STUDS

Surface Defect: ISO 6157-1:1988, FASTENERS - SURFACE DISCONTINUITIES -PART 1:BOLTS, SCREWS AND STUDS FOR GENERAL REQUIREMENTS

Quality Control Supervisor	Quality Control Manager