QUALITY CERTIFICATE

Customer:	NSS FASTENERS	Date :	2019-12-05
Product:	DIN931	Contract No:	19JDNSS195Y
Class:	8.8	Invoice No:	1912-68383641
Size:	48X300(Blank)	Lot No:	3613480008
Marking:	JDF 8.8	Order No.	457042
Quantity:	0.160 mpcs	Part No.	AMCBLA48300
Country of Origin:CHINA		Production Date	2019-09-05
Dimensions Of SPEC:	TEST FACILITY:Manufacturer	Certificate No.:	201909181210

Inspection Items		Standard	Result	Sample	Pass
Visual Appearance		----------	OK	20	20
Body Diameter		47.38-48	47.7-47.73	20	20
Thread	Go	/	OK	20	20
	No Go	/	OK	20	20
Width Across Flats		75-73.1	74.13-74.27	20	20
Width Across Corners		min 82.60	85.42-85.53	20	20
Major Diameter		/	/	20	20
Head Height		30.42-29.58	30.04-30.25	20	20
Total Length		297.4-302.6	298.97-300	20	20
Thread Length		/	/	20	20
Key Engagement		/	/	20	20
Head Diameter		/	/	20	20
Mechanical Properties		TEST FACILITY:Manufacturer			
CharacTeristics		Standard	Result		
Core Hardness	[HRC]	23-34	29-30	10	10
Wedge Strength	[Mpa]	min 830	1036-1045	8	8
Tensile Strength	[Mpa]	min 830	1038-1045	8	8
Yield Strength	[Mpa]	min 660	746-787	8	8
Elongation	[%]	/	/	8	8
Reduction Of area	[%]	/	/	8	8
Proof Load	[kN]	883.4	883.4	4	4
Impact test	[Akv/J]				
Decarburization		E≥1/2H1 HV0.3	311.16 303.15 304.39	6	6
HV(2)>=HV(1)-30,HV(3)<=HV(1)+30		G 0.015max		6	6
CHEMICAL COMPOSITION(%)		TEST FACILITY:Supplier			

Heat No		C	Si	Mn	P	S	Cr	Ni	Cu	Mo	B
40Cr-48	11906-0762	0.42	0.25	0.59	0.013	0.005	0.89	0.02	0.06	0.0061	
Thickness	[UM]							20		20	

Surface Coating:	BLACK
Thread Specification: ISO 965-1 1998:LIMITS OF SIZES FOR GENERAL PURPOSE EXTERNAL AND INTERNAL SCREW THREADS - MEDIUM QUALITY	
Sampling Dimension Specification: ISO3269 2000 inspection and quality assurance for high-volume machine assembly fasteners	
Dimension Specification: DIN 931-1987,HEXAGON HEAD BOLTS(PRODUCT GRADES A AND B)	
sampling mechanical properties specification: ISO3269 2000 Standard Guide for Fastener Sampling for Specified Mechanical Properties and Performance Inspection	
Mechanical 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	
The MTR shall include a statement that the products supplied are in compliance with all the requirements of the order.	
THE REPORT IS ISSUED ACCORDING TO ISO16228 F3.1(EN10204 3.1)	
Quality Control Supervisor	Quality Control Manager



沈健秋