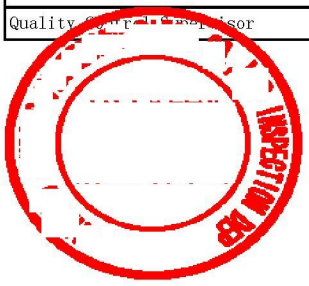
QUALITY CERTIFICATE

Customer:	NSS FASTENERS	Date :	2020-03-11
Product:	DIN912	Contract No:	19JDNSS370Y
Class:	12.9	Invoice No:	2003-69180831
Size:	20X100	Lot No:	3629580041
Marking:	JDF 12.9	Order No.	458356
Quantity:	2.560 mpcs	Part No.	AMCCAP20100
Country of Origin:CHINA		Production Date	2020-01-25
Dimensions Of SPEC:	TEST FACILITY:Manufacturer	Certificate No.:	201912195871

Inspection Items		Standard	Result	Sample	Pass
Visual Appearance		----------	OK	20	20
Body Diameter		19.67-20	19.75-19.78	20	20
Thread	Go	5g6gT	OK	20	20
	No Go	5g6gZ	OK	20	20
Width Across Flats		17.23-17.05	17.10-17.16	20	20
Width Across Corners		min 19.44	19.60-19.60	20	20
Major Diameter		19.623-19.958	19.83-19.86	20	20
Head Height		20-19.48	19.65-20.00	20	20
Total Length		99.3-100.7	99.81-100.00	20	20
Thread Length		min 52.	55-56	20	20
Key Engagement		min 10	10.3-10.3	20	20
Head Diameter		29.67-30.33	29.67-30.33	20	20
Mechanical Properties		TEST FACILITY:Manufacturer			
CharacTeristics		Standard	Result		
Core Hardness	[HRC]	39-44	40-41.5	10	10
Wedge Strength	[Mpa]	min 1220	1292-1364	8	8
Tensile Strength	[Mpa]	min 1220	1338-1344	8	8
Yield Strength ,0.2% offset	[Mpa]	min 1100	1198-1200	8	8
Elongation	[%]	min 8	12.9-13.0	8	8
Reduction Of area	[%]	min 44	51.8-52.0	8	8
Proof Load	[kN]	238	238	4	4
Impact test	[Akv/J]				
Decarburization		E/mm E≥3/4H1 HV0.3	420.49 413.45 402.97	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
SCM435-21	S11800288XX	0.36	0.22	0.68	0.017	0.0018	1.03	0.02	0.02	0.17	
Thickness	[UM]							20		20	

Surface Coating:	BLACK
Thread Specification: ISO 965-2 1998,PART 2: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 912-1983/ISO4762-2004,HEXAGON SOCKET HEAD CAP SCREWS	
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 Supervisor	Quality Control Manager



沈健狄