QUALITY CERTIFICATE

NSS FASTENERS 2018-11-01 Customer: Date :

EN14399-4 ASSEMBLE Product: Contract No: 18JDNSS237Y Class: 10.9 18-00431178 Invoice No: Size: 20X75Lot No: 3545120029

Marking: JDF 10.9 HV A05 Order No. 452294

Quantity: Part No. AMTHSFG20075 2.475 mpcs Country of Origin:CHINA Production Date 2018-08-12

Dimensions Of SPEC: TEST FACILI	TY:Manufacturer	Certificate No.: 2018062702006					
Inspection Items	Standard	Result	Sample	Pass			
Visual Appearance		ОК	20	20			
Body Diameter	19. 16-20. 84	19. 77-19. 80	20	20			
Thread Go	6gT	ОК	20	20			
No Go	6gZ	ОК	20	20			
didth Across Flats	32-31	31. 12-31. 35	20	20			
Width Across Corners	min 35.03	35. 89-36. 00	20	20			
Major Diameter	19. 623-19. 958	19. 80-19. 83	20	20			
Head Height	12. 1-13. 9	12. 78-12. 90	20	20			
Total Length	73. 5-76. 5	74. 74-75. 00	20	20			
Thread Length	min 33	34-35	20	20			
Key Engagement	/	/	20	20			
Head Diameter	/	/	20	20			
Mechanical Properties TEST FAC	ILITY:Manufacturer						
CharacTeristics	Standard	Result					
Core Hardness [HRC]	32-39	34-35	10	10			
Wedge Strength [Mpa]	min 1040	1116-1122	8	8			
Tensile Strength [Mpa]	min 1040	1119-1119	8	8			
Yield Strength [Mpa]	min 940	1017-1043	8	8			
Elongation [%]	min 9	12. 7-13. 9	8	8			
Reduction Of area [%]	min 48	55. 7-58. 3	8	8			
Proof Load [kN]	203	203	4	4			
Impact test [Akv/J]							
Decarburization	E/mm E≥2/3H1 HVO.3	347. 29 365. 87 369. 12	6	6			
HV2>=HV1-30, HV3<=HV1+30	G 0.015max		6	6			
HEMICAL COMPOSITION(%) TEST FA	CILITY:Supplier						
eat No C	Si Mn P	S Cr	Ni Cu	Mo B			
GML40CR J21802524 0.40	0.20 0.70 0.	. 014 0. 004 1. 015	0.018 0.015				
nickness [UM]			20	20			
urface Coating: BLACK							
read Specification: ISO 965-2, PART 2:LIM	MITS OF SIZES FOR GENERAL PURP	OSE EXTERNAL AND INTERNAL SCREW	THREADS - MEDIUM Q	UALITY			
mpling Dimension Specification: ISO3269	2000 inspection and quality a	ssurance for high-volume machin	e assembly fastener	S			
mension Specification: EN 14399-4 SYSTEM	M HVHEXAGON BOLT AND NUT AS	SEMBLIES					
	T000000 0000 0 1 1 0 1	1 0 5 . 0 11 0 0	.c. 1 W 1 . 1	D			

samplin 🐜 perties specification: ISO3269 2000 Standard Guide for Fastener Sampling for Specified Mechanical Properties and

898-1, MECHANICAL PROPERTIES OF FASTENERS MADE OF CARBON STEEL AND ALLOY STEEL —PART 1:BOLTS, SCREWS AND STUDS Properties

asteners; surface discontinuities; bolts, screws and studs subject to general requirements (ISO 6157-1:1988);

ent that the products supplied are in compliance with all the requi

G TO ISO16228 F3.1(EN10204 3.1) ISSUED

Quality Control Manager

QUALITY CERTIFICATE

Customer: NSS FASTENERS

Date :

2018-11-01

Marking:

JDF 10 HV A05

Invoice No:

18-00431178

Class:

10

Order No.

452294

Quantity:

16.875 mpcs

DESCRIPTION:

EN14399-4 20

Country of Origin:CHINA

Certificate No.:

2018062702007

DIMENSIONS OF SPEC

TEST FACILITY:Manufacturer

Inspection Items		Standard					Result				
VISUAL APPEARANCE							ОК				
WIDTH ACROSS FLATS		32-31					31. 2-31. 3	55			
WIDTH ACROSS Corners		min 35.03					35. 3-35. 8	}			
HEIGHT		16–14.9				15. 2-15. 5					
MECHANICAL PROPERTIES	TEST I	FACILITY:Man	ufacturer								
CHARACTERISTICS	Standard					Result					
HARDNESS [HRC]		26–36					30. 8-32. 5				
PROOF LOAD [kN]		min 259.7					261. 5-274. 2				
COATING THICKNESS [UM]											
						L					
CHEMICAL COMPOSITION(%)	TEST F	FACILITY:Sup	plier								
MILL HEAT	С	Si	Mn	Р	S	Cr	Ni	Cu	Мо	В	
TEE HERT						0.031	0.015				

Surface Coating:

BLACK

The information on chemical composition is based on the test

certificate received from the steel mill or supplier

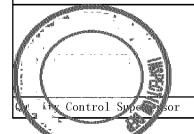
Material described in this document has been inspected under the parameters

set forth and found to be in conformance with the physical requirement

We certify the above product meets specific requirement

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 CERTIFICATE

Customer: NSS FASTENERS

Date: 2018-11-01

Marking:

JDF H A05

Invoice No:

18-00431178

Class:

/

Order No.

452294

Quantity:

33.750 mpcs

DESCRIPTION:

EN14399-6 20

Country of Origin:CHINA

Certificate No.:

2018062702007

DIMENSIONS OF SPEC

TEST FACILITY:Manufacturer

Inspection Items	Standard	Result						
VISUAL APPEARANCE		ОК						
INTERNAL DIAMETER	21. 33-21	21. 15-21. 2						
EXTERNAL DIAMETER	37–36. 38	36. 7–36. 8						
HEIGHT	3.7-4.3	3. 95-3. 99						
MECHANICAL PROPERTIES TEST F.	ACILITY:Manufacturer							
CHARACTERISTICS	Standard	Result						
HARDNESS [HRC]	31. 5-39	33-35.6						
COATING THICKNESS [UM]								
CHEMICAL COMPOSITION(%) TEST FACILITY:Supplier								

MILL HEAT	С	Si	Mn	P	S	Cr	Ni	Cu	Mo	В
823571-1	0.47	0.29	0.68	0.011	0.004					

Surface Coating:

BLACK

The information on chemical composition is based on the test

certificate received from the steel mill or supplier

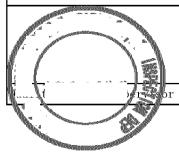
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Quality Control Manager