

TEST REPORT

No. : NBIN2307002418ML01_EN

Date : 2023-07-20

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scan to see the report



NBIN2307002418ML01

CUSTOMER NAME: HANDAN XIAOJUN FASTENER MANUFACTURING CO., LTD
ADDRESS: NORTH DUANZHUANG INDUSTRIAL ZONE, LINMINGGUAN TOWN,
YONGNIAN DISTRICT, HANDAN CITY, HEBEI PROVINCE

Sample Name : DIN 7504-L Hex Washer Slotted Self-Drilling Screws With EPDM
Bonded Washer
Product Specification : M6.3*63mm
Product or Lot No. : CY81127
Manufacturer : XIAOJUN
Material and Mark : SWRCH22A
Other Information : DIN 7504 Standard

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Test Required : Vickers Hardness Test, Torsional Strength Test, Drive test for tapping screws, Metallographic Analysis, Carburization Depth test
Date of Receipt : 2023-07-11
Testing Period : 2023-07-11 ~ 2023-07-20
Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd Ningbo Branch.

Reveka Chen

Reveka Chen
Authorized signatory



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1. Vickers Hardness Test

Test Method: ISO 2702:2011+ISO 6507-1:2018

Test item	Sample	Test position	Result		
HV 0.3	001	Surface	688	690	691

2. Torsional Strength Test

Test Method: ISO 2702:2011

Test result:

Test item	Sample	Sample specification	Result (N•m)
Breaking torque	001	ST 6,3	23.7

3. Drive test for tapping screws

Test method: ISO 2702:2011

Step1: Drill the standard test plate with holes that meet the standard requirements.

Step2: Screw the screw test piece into the test plate at least once.

Step3: Screw out the screw, observe whether the internal thread of the screw is matched with it, and the thread of the self tapping screw should not be damaged.

That results:

Sample	Spec.	Result
001	ST 6,3	The screw thread is not damaged and the tapped internal thread matches the screw

4. Metallographic Analysis

Test Method: GB/T 13298-2015+ISO 2702:2011

Etching Reagent: 4% nitric acid alcoholic solution

Step 1. Sampling from main body of material;

Step 2. Mounting, grinding, cleaning, polishing and etching;

Step 3. Observing with the microscope.

Test result(s):



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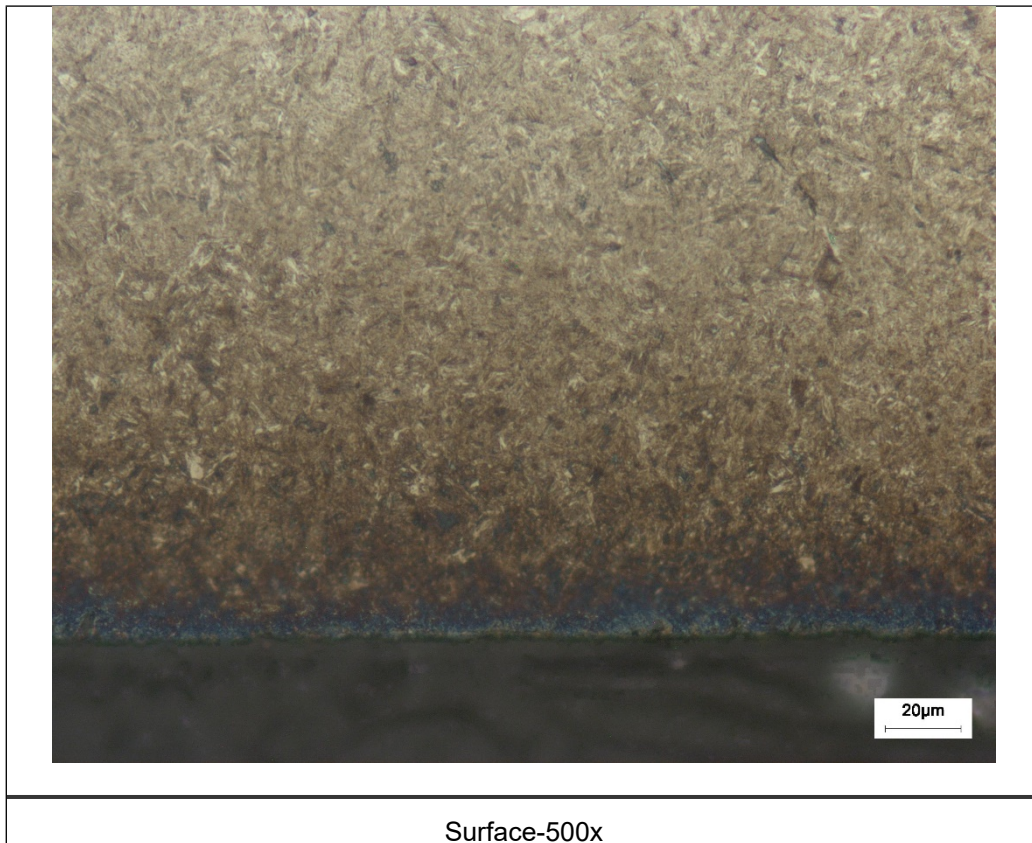
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Sample	Microstructure of the sample
001	The surface carburizing layer is structured as needle-like tempered martensitic, the core structure is slatted martensitic and some ferrite, show in test photo.

Test photo:



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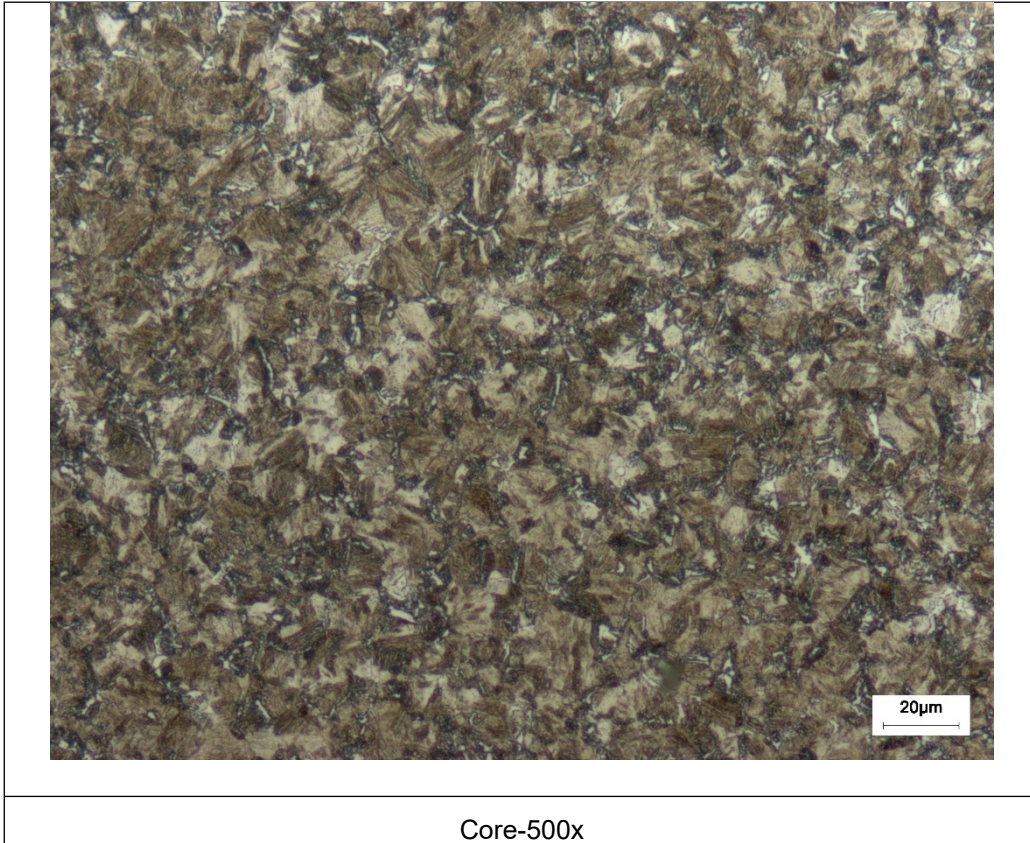
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5. Carburization Depth test

Test Method: ISO 2702:2011 (metallographic method)

Etching Reagent:4% nitric acid alcoholic solution

Step 1. Sampling from main body of material;

Step 2. Mounting, grinding, cleaning, polishing and etching;

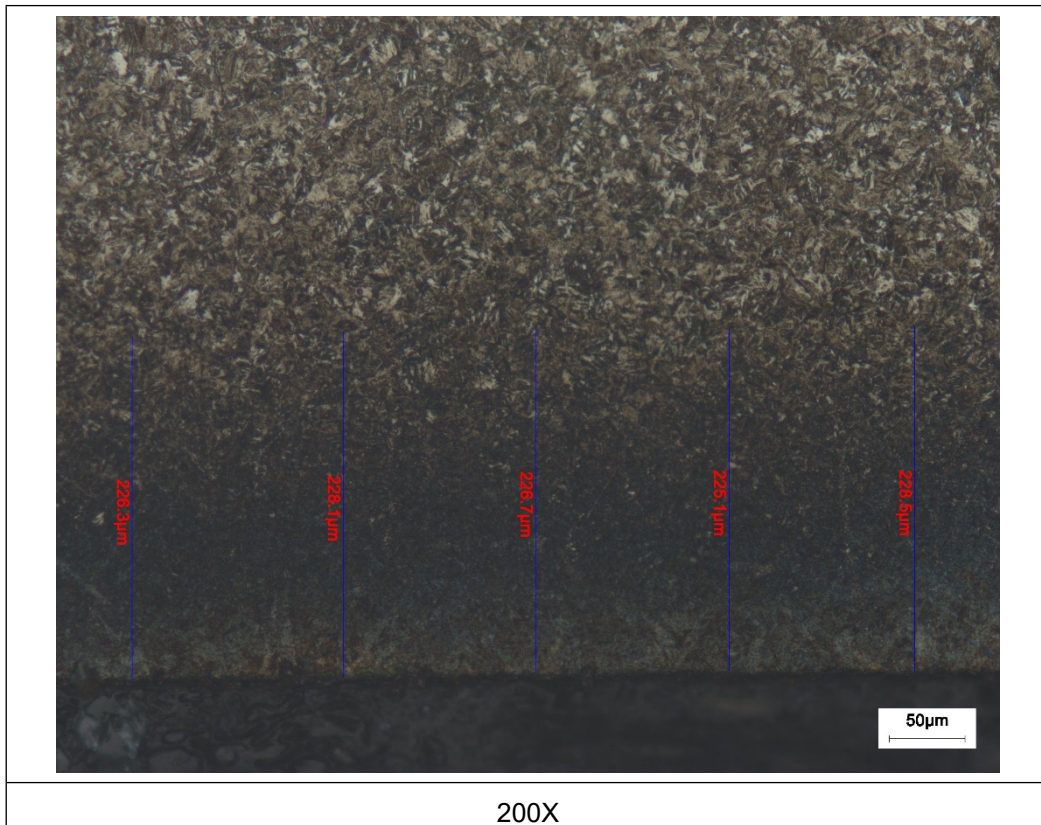
Step 3. Observing with the microscope.

Step 4. Measuring the deepest uniform decarburization area.

Test result(s):

Sample	Depth of carburization(mm)					Average
	1	2	3	4	5	
001	0.226	0.228	0.227	0.225	0.229	0.227

Test photo:



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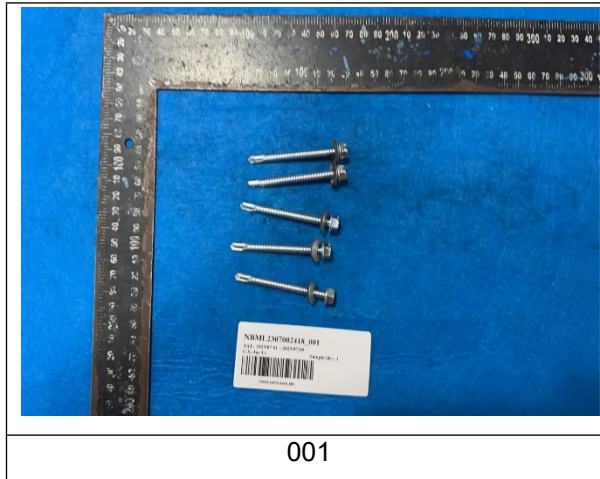
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Sample Photo



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