



TEST REPORT

Report No.: UTS20080118ME

Report Date: 2020/08/17

Client : Malosa Medical Instruments(Changshu) Limited.

Address : 62# Suzhou Road, Changshu High-tech Industrial Park, P.R.China .

The sample(s) information below is/are provided and confirmed by client:

Sample Name : 3Cr13Mo Stainless Steel Rod 3Cr13Mo Steel

Model : 7.0 mm

Receiving Date : 2020/08/12



Approved by

樊建红 授权签字人

Reviewed by

夏雨

夏雨

Prepared by

杜祎

杜祎

Page 1 of 6

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TEST REPORT

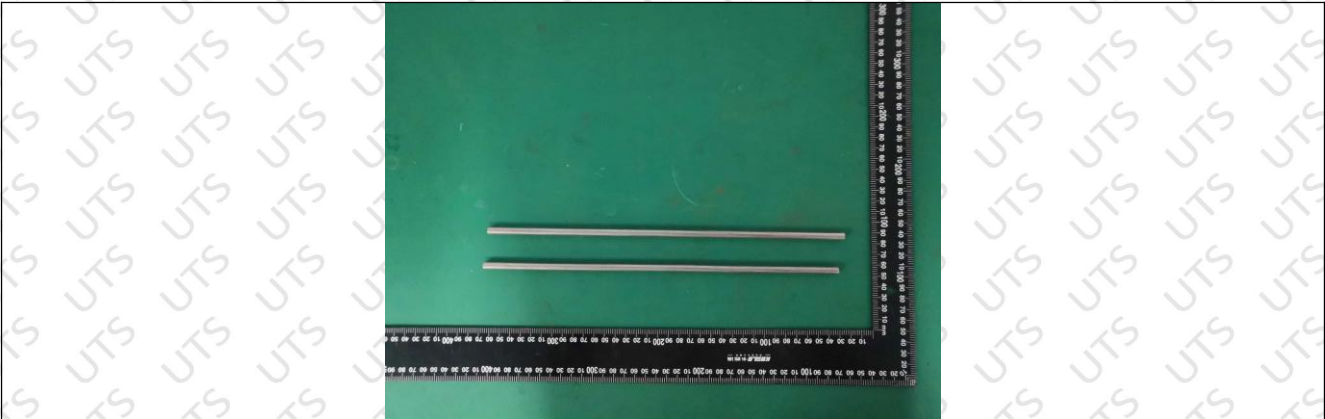
Report No.: UTS20080118ME

Report Date: 2020/08/17

Summary of Result(s):

Sample Name	Item(s)	Page Number
3Cr13Mo Stainless Steel Rod 3Cr13Mo Steel	C, Si, Mn, P, S, Ni, Cr, Mo, Cu	3-4
	Three terms of mechanics	4-5
	HRC hardness	6

Sample Status(s):



.....To be continued.....



TEST REPORT

Report No.: UTS20080118ME Report Date: 2020/08/17

1. C, Si, Mn, P, S, Ni, Cr, Mo, Cu

1.1 Test Standard

GB/T 20123-2006 Steel and iron—Determination of total carbon and sulfur content Infrared absorption method after combustion in an induction furnace (routine method);
SN/T 2718-2010 Determination of chemical composition in stainless steel-Inductively coupled plasma atomic emission spectrometric method.

1.2 Test Date

2020/08/17

1.3 Test Equipment

Test Equipment	Equipment Number	Calibration Period of Validity
Infrared carbon and sulfur analyzer	M-1-061	2021/01/06
Plasma emission spectrometer	C-1-001	2020/11/15

1.4 Test Condition

Environment Temperature : (23±5)°C

Environment Humidity : (55±10)%RH

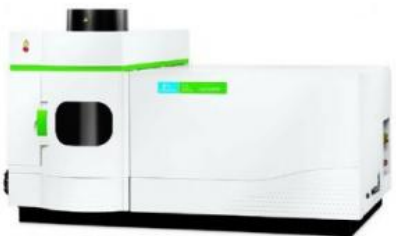
1.5 Test Result(s)

Unit:%		
Sample No.	Test Item	Result
1-1#	C	0.30
	Si	0.23
	Mn	0.14
	P	0.028
	S	0.003
	Ni	0.17
	Cr	13.03
	Mo	0.77
	Cu	0.07

Report No.: UTS20080118ME

Report Date: 2020/08/17

1.6 Test Photo(s)

	
Test equipment(M-1-061)	Test equipment(C-1-001)

2. Three terms of mechanics

2.1 Test Standard

GB/T 228.1-2010 Metallic materials--Tensile testing--Part 1:Method of test at room temperature.

2.2 Test Date

2020/08/12

2.3 Test Equipment

Test Equipment	Equipment Number	Calibration Period of Validity
Universal testing machine	M-1-004	2021/01/02

2.4 Test Condition

Environment Temperature	: (23±5)℃
Environment Humidity	: (55±10)%RH
Stress Rate	: 10 MPa/s
Original Gauge Length	: 50 mm
Sample Source	: Sample preparation
Sample Preparation Direction	: Sample length direction

TEST REPORT

Report No.: UTS20080118ME

Report Date: 2020/08/17

2.5 Test Result

Sample No.	Test Item	Result
1-2#	Tensile Strength R_m (MPa)	710
	Yield Strength $R_{p0.2}$ (MPa)	571
	Percentage Elongation after Fracture A_{50mm} (%)	21.0

2.6 Test Photo

	
Before Test	
	
During Test	After Test

TEST REPORT

Report No.: UTS20080118ME

Report Date: 2020/08/17

3. HRC hardness

3.1 Test Standard

GB/T 230.1-2018 Metallic materials-Rockwell hardness test-Part 1: Test method

3.2 Test Date

2020/08/14

3.3 Test Equipment

Test Equipment	Equipment Number	Calibration Period of Validity
Rockwell hardness tester	M-1-015	2021/01/02

3.4 Test Condition

Environment Temperature : (23±5)℃
 Environment Humidity : (55±10)%RH
 Test Site : Core
 Hardness Scale : HRC

3.5 Test Result

Sample No.	①	②	③
1-3#	21.5	21.5	21.5

3.6 Test Photo



.....End of Report.....