

# TEST REPORT

No. : SZIN1909013897ML

Date : Oct 08, 2019

Page: 1 of 3

CUSTOMER NAME: DONGGUAN OTAI SPECIAL STEEL CO., LTD  
ADDRESS: 1F, BUILDING B, SANFANG INDUSTRIAL AREA, XIANSHA, GAOBU TOWN, DONGGUAN CITY, GUANGDONG PROVINCE, P.R. CHINA

Sample Name : 34CRNIMO6 SOLID ROUND BAR  
Product Specification : DIA 55\*6000MM  
Material and Mark : 34CRNIMO6  
Heat No. : 21806851B

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.

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Date of Receipt : Sep 24, 2019  
Testing Start Date : Sep 24, 2019  
Testing End Date : Oct 08, 2019  
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. Shenzhen Branch  
Testing Center

Peter\_Lau  
Authorized signatory



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Page: 2 of 3

## 1. Chemical Composition Analysis:

Test Method: ASTM E415- 2017(OES)

Element	C	Si	Mn	P	S	Ni	Cr	Mo
Req.,%	0.30~0.38	≤0.40	0.50~0.80	≤0.025	≤0.035	1.30~1.70	1.30~1.70	0.15~0.30
Result , %	0.37	0.27	0.59	0.008	<0.001	1.59	1.52	0.18
Con.	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Note: The results comply with the requirement of BS EN 10343-2009 type 34CrNiMo6.

## 2. Tensile Test:

Test Method: EN ISO 6892-1-2016

Test item	Specimen type	Tensile strength (Mpa)	Proof strength (R <sub>P0.2</sub> ) (MPa)	Elongation after Fracture (A) (%)	Reduction of area (Z) (%)	Con
Req	-	1000~1200	≥800	≥11	≥50	-
Result	Round specimen	1154	1062	17.0	62.0	Pass

Note: The results comply with the requirement of BS EN 10343-2009 type 34CrNiMo6



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Page: 3 of 3

### 3.Impact Test:

Test Method: EN ISO 148-1-2016

Test item	Test condition	Absorbed energy (J)	Average (J)	Req(J)	Con
Charpy Impact (KV <sub>2</sub> )	Specimens: Charpy V-notch	91.04	92.02	Average ≥ 45 Single ≥ 31.5	Pass
	Dimension of specimens: 55mm×10mm×10mm	91.57			
	Temperature: Ambient	93.45			

Note: The results comply with the requirements of BS EN 10343-2009 type 34CrNiMo6.

### Original Sample Photo:



\*\*\*\*\* End of report\*\*\*\*\*



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