


# TEST REPORT


Report No.: 201107199E

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Client	SMARTREND SUPPLY LTD CHINA OFFICE	Address	_____
Product	Wheel bolts	Test Category	Applicant test
Dimension	M20×110	Order No.	_____
Grade	10.9	Heat No.	_____
Sample Size	1PCS	Lot No.	_____
Material	40Cr	Item No.	_____
Factory	_____	Mark/Trademark	_____
Other	_____		
<i>Client takes responsibility for submitting and identifying the correct Sample.</i>			
Receiving Date	2011-06-13	Test Date	2011-06-15~2011-06-16
Standard	ISO 898.1-2009 Mechanical properties of fasteners made of carbon steel and alloy steel - Part 1: Bolts, screws and studs with specified property classes - Coarse thread and fine pitch thread; GB/T 3077-1999 structural alloy steel.		
Test Items	See Next Page		
Description	Integrity, black.		
Test Summary	According to standard ISO 898.1-2009 and GB/T 3077-1999, the sent sample has been tested, the chemical composition of Mo just provide test result, the result of chemical composition of Si fails to meet the standard requirement, the other results of test item meet the standard requirement.		
Remarks	<div style="text-align: center;">  <p>(SEAL)</p> <p>Report Date</p> </div>		

EN10204 3.2

JL0101-2009 A/0

Approved by: 

Reviewed by: \_\_\_\_\_ Edited by: 

Senior engineer

Senior engineer

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Test Item(s)	Requirements	Result
Tensile Strength /MPa	The bolt shall meet the requirements for minimum tensile strength of 1040MPa before fracture occurs, To meet the requirements of this test, the fracture shall occur in the shank or the free threaded length of the bolt and not at the junction of the head and the shank.	1180MPa, the fracture occur in the free threaded length of the bolt.
Hardness Test/HRC	32~39	37.5
C/%	0.37~0.44	0.41
Si/%	0.17~0.37	0.13
Mn/%	0.50~0.80	0.69
P/%	≤0.035	0.008
S/%	≤0.035	<0.002
Cr/%	0.80~1.10	1.05
Mo/%	—	<0.005

Note : This report goes into effect with 201107199 serial number, In case of conflict between 201107199 and 201107199E, the report 201107199 shall prevail.

REPORT FINALIZED