

**HAIYAN H&C ALL THREADED MANUFACTURING CO., LTD.**  
**MATERIAL TEST CERTIFICATE EN 10204-3.1.B**

Certificate No. 2010HC041/4333

<b>Commodity &amp; Property Grade:</b> Threaded Rod	<b>Standard:</b> DIN 975 4.8	<b>Contract/Order No.:</b> 51518
<b>Customer:</b>	<b>Material:</b> Carbon Steel Q335	<b>Date of Issue:</b> 2011.12.1
	<b>Finish:</b> BZP	<b>Conclusion of Inspection:</b> QUALIFIED
		<b>Signature:</b> Gao Jianbo Chief of Inspection Department
		<b>Invoice No.:</b> HC041

Item Chemical Composition					Mechanical Properties					Decarburization on Test (Thread Portion)	Order No.	Thickness (um)
Standard	≤0.55		≤0.05	≤0.06	≥420	70-100	≥14	≥340				
Descriptions	C	Si	Mn	P	S	Tensile Strength N/mm <sup>2</sup>	Hardness HRB Min-Max	Elongation %	Yield Strength N/mm <sup>2</sup>	Up To Standard	51518	5.5
	%	%	%	%	%							
DIN ZP M10X3000	0.06	0.20	0.37	0.03	0.02	515	87	18	420	Up To Standard		

