HANGZHOU SPRING WASHER CO.,LTD

QUALITY TEST CERTIFICATE OF SPRING LOCK WASHER

Standard: ASME B 18.21.1-2009 Contract No.: 12HZW01026/02070

Order No.: PO 12012001 Invoice No.: 12SHD133

Chemical Composition (%)	C	Si	Mn	P	S	Cr	Ni	Cu
	0.4	0.18	0.71	0.016	0.002	0.97	0.022	0.038
Heat No.	11307218-4							

Specification	3/4" ZY ALLOY	
Quantity	45 M	
Lot No.	1202583	
Part No.	00355-3200-022	

Testing Item	Ac/n	Norm	Result	Reject	Norm	Result	Reject
Inside Diameter	2/100	19.13-19.46	19.13-19.43	0			
Outside Diameter	0/8	Max32.13	Max31.49	0			
Width	1/32	Min5.94	Min6.04	0			
Thickness	1/32	4.78-5.03	4.93-5.03	0			
Height	/						
Section	/						
Surface Defects	2/100	None	None	0			
Hardness	0/4	HRC38-46	HRC43-46	0			
Springing	/						
Toughness	0/8	Qualified	Qualified	0			

General:

The spring lock washers are conformed with the standard of ASME B 18.21.1-2009. QUALIFIED

Inspector: Shiweiqing Quality Inspection Chief

Date: 2013.05.05