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## TEST CERTIFICATE

**NO : 38602**

**DATE : 12.10.2008**

<b>CUSTOMER :</b> BRIGHT STAR	<b>SIZE :</b> M20
<b>P.O. NO. :</b> S5443-11-08	<b>SPEC :</b> ASTM F436M
<b>PRODUCT :</b> HARDENED STEEL WASHERS	<b>TYPE :</b>
<b>PART NO. :</b> SWWFM20HDG	<b>QTY :</b> 49750

**CHEMICAL COMPOSITION :**

		C	Si	Mn	P	S	Cu	Ni	Cr
<b>HEAD MARK</b>	<b>HEAT NO.</b>	<b>X 100</b>							
S F436M	S08-W9006S7713	45	26	58	2.2	2.0			

**MECHANICAL PROPERTIES :**

TEST		REQUIREMENT	RESULT	
<b>TENSION</b>	Tensile Strength – N/MM2	N/A		
	Yield Strength– N/MM2	N/A		
	Elongation - %	N/A		
	Reduction of Area - %	N/A		
<b>PROOF LOAD – N/MM2</b>		N/A		
<b>HARDNESS – HR</b>		C26 – C45	C35.8	C39.5

**SURFACE COATING :** HOT DIP GALVANIZED

**TEST :** ASTM F 606 M

**DIMNL. INSPECTION :** SATISFACTORY

**COATING THICKNESS :** 45 MICRONS (Average)

**VISUAL INSPECTION :** SATISFACTORY

**WE CERTIFY THAT THE ABOVE PRODUCT MEETS THE SPECIFIED REQUIREMENTS OF CONTRACT.**

  
 QC MANAGER