



GLORIA MATERIAL TECHNOLOGY CORP.

INSPECTION CERTIFICATE

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Messrs:

Order No: 2002007805 Grade: XM-19
 FILE NO: 2003003490-C Size: 7"
 HEAT-Lot No: R1208B-10 Weight: 1558.0KG 3434.80LB
 Condition: HF-Solution Annealed-Turned

P.O.NO.: 10853

Date: 09/01/2003

Pcs: 1

Chemical Composition (wt%)

	C	Si	Mn	P	S	Ni	Cr	Mo	V
Min.			4.00			11.50	20.50	1.50	0.10
Max.	0.06	1.00	6.00	0.045	0.030	13.50	23.50	3.00	0.30
Result	0.03	0.76	5.14	0.034	0.002	12.05	21.09	2.42	0.20

	N	Nb
Min.	0.2000	0.10
Max.	0.4000	0.30
Result	0.3360	0.27

Mechanical Properties Spec.

	Hardness (1/2R)	Grain Size
Spec.Min.		
Spec.Max.		
Result	206HB	9

Tensile Test

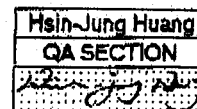
Unit	Elongation(A) %	Tensile Strength(Rm) KSI	Yield Strength(Rp) KSI	Reduction of Area(Z) %
Min.	35	100	55	55
Max.				
Result	47	117	70	62

Specification:

ASTM A276-98b, A479-99, AMS 5764, ASTM A484-98,

Remark:

1. ALL XM-19 MATERIAL TO BE ANAEELED AT 1950-2000 DEGREES FOR 1 HOUR MINIMUM. 2. ALL XM-19 MATERIAL TO BE FREE OF ANY MERCURY CONTAMINATION. 3. ALL XM-19 MATERIAL TO BE PRODUCED WITHOUT OZONE DEPLETING SUBSTANCES. 4. ULTRASONIC TEST: OK.



Our quality and environment management systems have been certified by ISO 9001 QMS and 14001 EMS.

We hereby certify that the material described herein has been manufactured and tested with satisfactory results in accordance with the requirement of the above material specification.

TOTAL P. 02