



ECHJAY FORGINGS PVT. LTD.
PUSHAMAN FORGINGS DIVISION

Honad Village, Khalapur Taluka, Raigad District, Khopoli, Maharashtra 410203, India.

EN 10204 JAN 2005 - 3.1



MILL TEST CERTIFICATE

Abnahmeprüfzeugnis / Test Report

(AD-2000-Merkblatt: WO Certificate No. 07 202 W 1409 06 00029 of RW/TUV
 (PED 97 / 23 / EC Certificate No. 07 202 2 1409 06 00032)

Y.C. No. EF2009-EXP-00187-012-061
 T.C. Date 16-Sep-2008
 Bestler / Customer: _____ Date 13-May-2008
 Bestler No. / Order No. IOI01066AP
 Erzeugnis / Werkstoff _____ Article No. _____
 Item Description / Material _____ Heat / Lot No. _____
 ANSI B16.5 BL RF 600 2.00 _____
 ASTM A182 F316/316L _____

Anforderungen / Demands _____ Heat Treatment _____
 ASTM A 182 / ASME SA 182 - 2007, ASME B 16.5 - 2003 Solution Annealed
 NACE MR - 0175. _____

Zeichen des Herstellerwerkes / Manufacturer's Brand _____
 Schmelze Nr./Des Prüfloses Heat / Lot No. _____
 D238 _____
 AA-82 _____
 Stempel des Abnehmers _____
 Stamp of the testing engineer _____

Exigencias Sinormas / Requirements

	%C	%Mn	%Si	%S	%P	%Ni	%Cr	%Mo	%Cu	%V	%Al	%Ti	%Cb	%N	%Co	%	%	%
Min	-	-	-	-	-	10.0000	16.0000	2.0000	-	-	-	-	-	-	-	-	-	-
Max	0.0300	2.0000	1.0000	0.0300	0.0450	14.0000	18.0000	3.0000	-	-	-	-	-	0.1000	-	-	-	

Schmelzen Analyse / Heat Analysis

0.0240	1.5900	0.4400	0.0270	0.0380	10.0600	16.8700	2.0300	-	-	-	-	-	-	0.0698	-	-	-
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Erשמלזונגסאַרט / Melting Process Electric Furnace & Refining through AOD

Nr No.	Large Orientation	Reh / Rp Mpa (N / mm ²) / PSI		Rm Mpa N / mm ² / PSI	A (%) Lo = 4D	A (%) Lo = 5.65 A	Z (%)	Hardness HRC / BHN
		0.2 %	1.0 %					
TANG	Min	205/30000		515/75000	30		50	
	Max							22/187

Prüfbergebnisse / Test Results

TANG	270	581	60.80	73.71	<14 HRC
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Charpy Impact Test
 Form / Forms ISO V Av / K (J)

	I	II	III	AVG.	TEMP.
Specified					
Observed					

Sonstiges / Other Remarks
 PMI Test: 100 % No Objections
 Dimension & Visual Check: 100% Satisfactory

IGC- test in accordance with ASTM A 262 Pract. E : Satisfactory.
 Radioactivity checked - (µR/hr) Radiation level found within limits w.r.t. natural background.
 FLANGE FACING 3.2-6.3 RA.

We confirm that the products have been supplied in accordance with the requirements of the order and the specifications .

Echjay Forgings Pvt. Ltd.
 Checked By _____
 S. Y. Naik

 Kishore Shringarpure
 Vice President (Q.A.)
 Works Authorised Inspector

The Saraswat Co-op. Bank Ltd.
 Chalkoper Branch,
 01708EBC50 / 132185