

RANDACK FASTENERS INDIA PVT. LTD.

Gat No 1197, Near Ghotawade Phata, Village Pirangut, Taluka Mulshi, Dist: Pune, 412108.

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Customer: Inox Wind Limited			T.C. No.:	2383			Date: 20	17-01-03	
PO No: 5100009562	Date: 2016-04-	Date: 2016-04-03		Part Description: BOLT En 14399-4-M36X290-10.9-Hv-tzn					
RFI CO No: CON/16-17/00001	Date: 2016-04-	Date: 2016-04-04		Ref Std./Drawing No.: EN 14399-4					
Item Code: FTNSCRW029	Qty: 820 nos		Material: ISO 898-1/10.9						
A. Chemical Composition: Reference STD: DI				DIN EN 10083-3 42CrMo4 1.7225					
Elements	Heat No.	C %	Si %	Mn %	P %	S %	Cr %	Mo %	Remark

A. Chem	ical Composition:	N EN 1008	3-3 42CrN	Mo4 1.7225	5					
Elements		Heat No.	C %	Si %	Mn %	P %	S %	Cr %	Mo %	Remark
Sr.No.	Batch Code	Min	0.38	0	0.6	0	0	0.9	0.15	
		Max	0.45	0.40	0.90	0.025	0.035	1.20	0.30	
1	DJU/DQV	FC2-376-377,FC3-186	0.4260	0.1511	0.7523	0.0087	0.0092	1.0525	0.2069	Passed
2	DJU/DQA	FC2-358-360/FC3-184	0.4160	0.1523	0.7365	0.0081	0.0069	1.0748	0.1980	Passed
3	DJU/DPX	FC2-355-357, FC3-183	0.4082	0.1540	0.7345	0.0088	0.0072	1.0835	0.2040	Passed

	DUC/DII		,,,,,,,		0002	0.10	0.75.0	0.0000	1.0000 0.20.0	5500	
B. Mechanical Properties :							e STD: ISO	9898-1 10.9			
Parameters		Heat No.	0.2% Proof Stress (N/mm2)	U.T.S. (N/mm2)	Elongation (%)	Reduction (%)	Proofload	Impact @ -20C	Hardness	Remark	
Sr.No.	Batch Code	o. Batch Code	Min	940	1040	9	48		27J	320	
		Max							380		
1	DJU/DQV	FC2-376-377,FC3-186	986.53	1086.57	15.09	64	678	78,80,80 Avg:79.33		Passed	
2	DJU/DQA	FC2-358-360/FC3-184	952.85	1093.16	61.6	58.08	678	28,28,28 Avg:28		Passed	
3	DJU/DPX	FC2-355-357, FC3-183	1025.64	1115.56	16.71	56.19	678	84,82,86 Avg:84		Passed	

Torque Tension test results:

Sr.No.	Batch No.	Applied torque in NM	Force in KN	Coefficient of friction(µ)	Result
1	DJU/DQV	2800	659.4	-	Passed
2	DJU/DQA	2800	602.1	-	Passed
3	DJU/DPX	2800	570.4	-	Passed

Wedge test results:

Sr.No.	Batch No.	Required Tensile strength under wedge	Observed Tensile strength under wedge	Result
		load(Rm) Mpa min.	load(Rm) Mpa	
1	DJU/DQV	1040 min	1164	Passed
2	DJU/DQA	1040 min	1164	Passed
3	DJU/DPX	1040 min	1164	Passed

Non Destructive Testing
Parameter

Sr.No.	Parameter	Required	Observation	Remark
1	MPI Testing	As per MPI procedure no. RFI/MT/01 Rev.05 100% done & no record-able indication obse		served OK
Other De	tails			
Sr.No.	Parameter	Required	Observation	Result
1	Dimensions	As per drawing	Refer dimesion report attached	OK
2	Identification	MEC and a Crade batch and a Very of MCE	DELIGODOV DOA DDV 6-16	OV

The results of tests are satisfactory.

Prepared By, Checked By,

Approved By,

B.S. revillary

sachin pawar Asst.Manager-QA sachin pawar Manager Engineering

Bhimrao Kulkarni Jr.Engineer - QA