

RF		RANDACK FASTENERS INDIA PVT. LTD.												
				Gat No 1197, Near Ghotawade Phata, Village Pirangut, Taluka Mulshi, Dist: Pune, 412108.										
		1			3.1 CERT	IFICAT	E AS PEI	R EN 102	04					
Custome	r: Randack Fastener	rs America	ıs.				T.C. No.:	: 2948			Date: 20	17-02-13		
PO No: 3	300032669 Rev dt 17.	.01.2017		Date: 20	17-01-08		Part Description: STUD M36X581							
RFI CO	No: EXP/16-17/0006	3		Date: 20	7-01-13 Ref Std./Drawing No.: 103W1453P008 REV F									
Item Cod	de: TPI 58249			Otv: 200	C									
Chemical	Composition :				Reference	e STD: DI	N EN 1008	3-3 & GE	Specs.P14	A-AL-022	0 Rev. C			
	Elements		Heat No.		C %	Si %	Mn %	P %	S %	Cr %	Mo %	P+S %	Remark	
Sr.No.	Sr.No. Batch Code		Min Max		0.38	0	0.6	0	0	0.9	0.15	0]	
					0.45	0.40	0.90	0.025	0.035	1.20	0.30			
1	EDY	K107921		T2-1140	0.41	0.24	0.76	0.014	0.011	1.12	0.21	0.025	Pas	ssed
2	EED	K107920			0.41	0.20	0.76	0.015	0.010	1.14	0.21	0.025	Pas	ssed
3	DFE				0.41	0.21	0.77	0.009	0.008	1.00	0.19	0.017	-	ssed
4	DDX		98883BB		0.40	0.20	0.78	0.015	0.008	1.03	0.19	0.023		ssed
5				7T4-1018	0.42	0.25	0.78	0.013	0.008	1.15	0.22	0.021	Passed	
6	EEC K107920		T3-1455	0.41	0.20	0.76	0.015	0.010	1.14	0.21	0.025		ssed	
Mechanio	cal Properties :								O 898-1 10	.9 & GE S			Rev. C	
	Parameters		Heat No.		0.2% Proof	U.T.S.	Elongation	Reduction	Impact		Hardness Ren			Remark
					Stress (N/mm2)	(N/mm2)	(%)	(%)	@ -40					
Sr.No.	Batch Code	Min		940	1040	9	48	27						
			Max		7.10	1170		- 10			375			1
1	EDY	K1	07921T2-11	140	1023.38	1082.14	15.46	57.38	58,52,64			336	350	Passed
									Avg:58	Core	340	335	335	1
2	EED	K1	07920T4-10)17	1030.84	1127.27	16	54.93	48,52,42	Surface	365	369	363	Passed
									Avg:47.33	Core	350	352	352	1
3	DFE		99302BU		1049.05	1140.05	14.46	54.98	28,28,30	Surface	359	360	362	Passed
									Avg:28.67	Core	352	355	355	
4	DDX		98883BB		992.56	1091.2	13	54.44	30,32,30	Surface	342	346	358	Passed
									Avg:30.67	Core	340	340	348	
5	EEA	K1	08097T4-10)18	1009.42	1121.75	14.97	54.53	54,60,56	Surface	355	351	358	Passed
									Avg:56.67	Core	352	352	352	
6	EEC	K1	107920T3-14	155	968.51	1099.68	15	54.92	70,70,68	Surface	364	369	366	Passed

			Avg.09.33	Core 346 333	330		
Non Meta	allic Inclusion Rating:		Reference STD : GE specs. P14A-AL-0220 Rev. C				
Sr.No.	Heat No.	Parameter	Required	Observation	Remark		
1	K107921T2-1140	K3 as per DIN 50602	20 Max.	05	OK		
2	K107920T4-1017	K3 as per DIN 50602	20 Max.	05	OK		
3	99302BU	K3 as per DIN 50602	20 Max.	16	OK		
4	98883BB	K3 as per DIN 50602	20 Max.	16	OK		
5	K108097T4-1018	K3 as per DIN 50602	20 Max.	05	OK		
6	K107920T3-1455	K3 as per DIN 50602	20 Max.	05	OK		
MIDIA	" D204 4T 0202						

MPI Details as per P28A-AL-0203:

Observation Result Sr.No. Parameter Required 1 MPI Testing As per MPI procedure No. RFI/MT/01 Rev. 05 100% done (Before & after threading) & no OK approved by GE level III person recordeble indication observed

Delta Coating Reference STD : GE specs. P14A-AL-0218 Rev. CL A Refer attached coating certificate no:- 1) RFI/QA/9-16/743-C 2) RFI/QA/11-16/1172-A

Other De	tails	Reference	Reference STD :103W1453 P008 Rev. F			
Sr.No.	Parameter	Required	Observation	Result		
1	Thread Formation	By rolling after heat treatment	Threading done by rolling after heat treatment	OK		
2	Dimensions	As per drawing	Refer Dimension Report Attached	OK		
3	Identification	MFG code, Grade, Batch code & Yr. of MFG.	'RFI 10.9, EDY,EED,DFE,DDX,EEA,EEC &	OK		
			16			

The results of tests are satisfactory.

Prepared By,

Checked By,

Approved By,

Bhimrao Kulkarni Jr.Engineer - QA

Vishal Singh Asst.Manager-QA Amit Petkar

Manager Engineering