

SAMAKKEE SALUKPAN CO.,LTD
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 MUANGSAMUTPRAKARN, SAMUTPRAKARN THAILAND 10270
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CERTIFICATE (INV.) NO. : 09XXE-224
 ISO9001 RECORD NO: 00106Q10389R0M/3302

3.1. B CERTIFICATE

Order No. : 09XXE-224

Batch No.: 0911-017

Place of Testing : Samutprakarn, Thailand

Date of Testing: JAN.7th,2010

Customer : JSC LYTAGRA

Project: Shipment inspection for bolts under order no.09XXE-224

Acceptance Inspection : According to ISO 9001:2000

Standard Reference : DIN931, DIN933, DIN9021, DIN127, DIN125

Sampling : 100 pcs samples of each size of this order were drawn randomly from packed cartons in the pallets
 A number of these samples were tested

Description of Goods : Bolts and washers under order NO.09XXE-224
 &Samples : As fellow

Engineer : SAMAKKEE SALUKPAN CO.,LTD.

ATTACHED PLS. FIND TEST RESULTS IN DETAILS

A. Test Results:

PRODUCT DESCRIPTION	1.CHEMICAL ANALYSIS (%)				
	C	Si	Mn	P	S
M6x60	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M8x60	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M8x70	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M8x80	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03

**AB "LYTAGRA"
 SERTIFIKATAMS**
 Sand. Nr. 5

DIN933-8.8 ZP

M8x25	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M8x30	0.3-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M8x35	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M8x45	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M8x50	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M8x60	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M10x25	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M10x30	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M10x35	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M10x40	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M10x45	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M10x50	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M12x25	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M12x35	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M12x40	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M12x45	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M12x50	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M12x55	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M14x40	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M14x50	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M16x40	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M20x50	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M20x60	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03

DIN9021-ZP

M6	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M8	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M10	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M12	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M14	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M16	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M18	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M20	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M24	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M27	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03

DIN127-ZP

M20	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M24	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M6	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M8	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03

DIN125-ZP

M10	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M12	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03

AB "LYTAGRA"
SERIFIKATAMS
SERT. № 15

PRODUCT DESCRIPTION	HARDNESS(HRC)		PROOF LOAD(N/mm ²)		TENSILE STRENGTH(N/mm ²)		3. FINISH THICKNESS (um)	
	AQL 0.65		AQL 1.5		AQL 1.5		AQL 1.5	
	Inquiry Value	Test Value	Inquiry Value(min)	Test Value	Inquiry Value	Test Value	Inquiry Value	Test Value
	Inquiry Value	Test Value	Inquiry Value	Test Value	Inquiry Value	Test Value	Inquiry Value	Test Value
M16	0.33-0.37	0.26-0.29	0.66-0.70	0.66-0.70	0.011-0.03	0.02-0.03	0.011-0.03	0.02-0.03
M20	0.30-0.37	0.26-0.29	0.66-0.70	0.66-0.70	0.011-0.03	0.02-0.03	0.011-0.03	0.02-0.03
M6x60	22-32	23-30	640	680	800	860	5-8	OK
M8x60	22-32	23-30	640	680	800	860	5-8	OK
M8x70	22-32	23-30	640	680	800	860	5-8	OK
M8x90	22-32	23-30	640	680	800	860	5-8	OK
M8x100	22-32	23-30	640	680	800	860	5-8	OK
M8x120	22-32	23-30	640	680	800	860	5-8	OK
M10x60	22-32	23-30	640	680	800	860	5-8	OK
M10x70	22-32	23-30	640	680	800	860	5-8	OK
M10x100	22-32	23-30	640	680	800	860	5-8	OK
M10x120	22-32	23-30	640	680	800	860	5-8	OK
M10x140	22-32	23-30	640	680	800	860	5-8	OK
M12x60	22-32	23-30	640	680	800	860	5-8	OK
M12x70	22-32	23-30	640	680	800	860	5-8	OK
M12x80	22-32	23-30	640	680	800	860	5-8	OK
M12x100	22-32	23-30	640	680	800	860	5-8	OK
M12x150	22-32	23-30	640	680	800	860	5-8	OK
M14x60	22-32	23-30	640	680	800	860	5-8	OK
M14x80	22-32	23-30	640	680	800	860	5-8	OK
M14x90	22-32	23-30	640	680	800	860	5-8	OK
M16x55	23-34	25-33	660	730	830	900	5-8	OK
M16x60	23-34	25-33	660	730	830	900	5-8	OK
M16x70	23-34	25-33	660	730	830	900	5-8	OK
M16x75	23-34	25-33	660	730	830	900	5-8	OK
M16x80	23-34	25-33	660	730	830	900	5-8	OK
M16x90	23-34	25-33	660	730	830	900	5-8	OK
M16x100	23-34	25-33	660	730	830	900	5-8	OK
M16x160	23-34	25-33	660	730	830	900	5-8	OK
M18x80	23-34	25-33	660	730	830	900	5-8	OK
M20x65	23-34	25-33	660	730	830	900	5-8	OK
M20x70	23-34	25-33	660	730	830	900	5-8	OK
M20x80	23-34	25-33	660	730	830	900	5-8	OK

DIN931-8.8 ZP

M8x90	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M8x100	0.3-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M8x120	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M10x60	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M10x70	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M10x100	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M10x120	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M10x140	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M12x60	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M12x70	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M12x80	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M12x100	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M12x150	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M14x60	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M14x80	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M14x90	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M16x55	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M16x60	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M16x65	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M16x70	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M16x80	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M16x90	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M16x100	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M16x160	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M18x80	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M20x65	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M20x70	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M20x80	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M20x90	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M20x100	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M20x120	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M20x150	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M24x60	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M24x80	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M24x90	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M24x120	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M6x16	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M6x20	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M6x40	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03
M8x20	0.33-0.37	0.26-0.29	0.66-0.70	0.011-0.03	0.02-0.03

AB "LYTAGRAMS"
SERTIFIKATAMS
SANDI, N. 5

M20x90	23-34	25-33	660	730	830	900	5-8	OK
M20x100	23-34	25-33	660	730	830	900	5-8	OK
M20x120	23-34	25-33	660	730	830	900	5-8	OK
M20x150	23-34	25-33	660	730	830	900	5-8	OK
M24x60	23-34	25-33	660	730	830	900	5-8	OK
M24x80	23-34	25-33	660	730	830	900	5-8	OK
M24x90	23-34	25-33	660	730	830	900	5-8	OK
M24x120	23-34	25-33	660	730	830	900	5-8	OK
M6x16	22-32	23-30	640	680	800	860	5-8	OK
M6x20	22-32	23-30	640	680	800	860	5-8	OK
M6x40	22-32	23-30	640	680	800	860	5-8	OK
M8x20	22-32	23-30	640	680	800	860	5-8	OK
M8x25	22-32	23-30	640	680	800	860	5-8	OK
M8x30	22-32	23-30	640	680	800	860	5-8	OK
M8x35	22-32	23-30	640	680	800	860	5-8	OK
M8x45	22-32	23-30	640	680	800	860	5-8	OK
M8x50	22-32	23-30	640	680	800	860	5-8	OK
M8x60	22-32	23-30	640	680	800	860	5-8	OK
M10x25	22-32	23-30	640	680	800	860	5-8	OK
M10x30	22-32	23-30	640	680	800	860	5-8	OK
M10x35	22-32	23-30	640	680	800	860	5-8	OK
M10x40	22-32	23-30	640	680	800	860	5-8	OK
M10x45	22-32	23-30	640	680	800	860	5-8	OK
M10x50	22-32	23-30	640	680	800	860	5-8	OK
M12x25	22-32	23-30	640	680	800	860	5-8	OK
M12x35	22-32	23-30	640	680	800	860	5-8	OK
M12x40	22-32	23-30	640	680	800	860	5-8	OK
M12x45	22-32	23-30	640	680	800	860	5-8	OK
M12x50	22-32	23-30	640	680	800	860	5-8	OK
M12x55	22-32	23-30	640	680	800	860	5-8	OK
M14x30	22-32	23-30	640	680	800	860	5-8	OK
M14x40	22-32	23-30	640	680	800	860	5-8	OK
M14x50	22-32	23-30	640	680	800	860	5-8	OK
M16x40	23-34	25-33	660	730	830	900	5-8	OK
M20x50	23-34	25-33	660	730	830	900	5-8	OK
M20x60	23-34	25-33	660	730	830	900	5-8	OK
M6	-	-	-	-	-	-	5-8	OK
M8	-	-	-	-	-	-	5-8	OK
M10	-	-	-	-	-	-	5-8	OK
M12	-	-	-	-	-	-	5-8	OK

DIN933-8. 8 ZP

PRODUCT DESCRIPTION	4. DIMENSIONS (mm)															
	S				K				D				I			
	AQL 1.0		AQL 1.5		AQL 1.0		AQL 1.5		AQL 1.0		AQL 1.5		AQL 1.0		AQL 1.5	
	Inquiry Value	Test Value	Inquiry Value	Test Value	Inquiry Value	Test Value	Inquiry Value	Test Value	Inquiry Value	Test Value	Inquiry Value	Test Value	Inquiry Value	Test Value	Inquiry Value	Test Value
DIN9021-ZP	M14	-	-	-	-	-	-	-	-	-	-	-	-	-	5-8	OK
	M16	-	-	-	-	-	-	-	-	-	-	-	-	-	5-8	OK
	M18	-	-	-	-	-	-	-	-	-	-	-	-	-	5-8	OK
	M20	-	-	-	-	-	-	-	-	-	-	-	-	-	5-8	OK
	M24	-	-	-	-	-	-	-	-	-	-	-	-	-	5-8	OK
	M27	-	-	-	-	-	-	-	-	-	-	-	-	-	5-8	OK
	M12	-	-	-	-	-	-	-	-	-	-	-	-	-	5-8	OK
	M20	-	-	-	-	-	-	-	-	-	-	-	-	-	5-8	OK
	M24	-	-	-	-	-	-	-	-	-	-	-	-	-	5-8	OK
	M6	-	-	-	-	-	-	-	-	-	-	-	-	-	5-8	OK
	M8	-	-	-	-	-	-	-	-	-	-	-	-	-	5-8	OK
	M10	-	-	-	-	-	-	-	-	-	-	-	-	-	5-8	OK
	M12	-	-	-	-	-	-	-	-	-	-	-	-	-	5-8	OK
	M16	-	-	-	-	-	-	-	-	-	-	-	-	-	5-8	OK
	M20	-	-	-	-	-	-	-	-	-	-	-	-	-	5-8	OK
DIN125-ZP	M6x60	9.78-10.00	9.79-9.95	3.85-4.15	3.95-4.10	5.79-5.97	5.81-5.96	59.4-60.6	59.4-60.6	59.5-60.4	59.4-60.6	59.5-60.4	59.4-60.6	59.5-60.4	59.4-55.6	54.8-55.3
	M8x60	12.82-13.00	12.88-12.98	5.15-5.50	5.19-5.45	7.76-7.92	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90
	M8x70	12.82-13.00	12.88-12.98	5.15-5.50	5.19-5.45	7.76-7.92	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90
	M8x90	12.82-13.00	12.88-12.98	5.15-5.50	5.19-5.45	7.76-7.92	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90
	M8x100	12.82-13.00	12.88-12.98	5.15-5.50	5.19-5.45	7.76-7.92	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90
	M8x120	12.82-13.00	12.88-12.98	5.15-5.50	5.19-5.45	7.76-7.92	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90	7.78-7.90
	M10x60	13.73-14.00	13.79-13.95	6.22-6.56	6.27-6.52	9.73-9.97	9.75-9.95	59.4-60.6	59.4-60.6	59.5-60.4	59.4-60.6	59.5-60.4	59.4-60.6	59.5-60.4	59.4-60.6	59.5-60.4
	M10x70	13.73-14.00	13.79-13.95	6.22-6.56	6.27-6.52	9.73-9.97	9.75-9.95	59.4-60.6	59.4-60.6	59.5-60.4	59.4-60.6	59.5-60.4	59.4-60.6	59.5-60.4	59.4-60.6	59.5-60.4
	M10x100	13.73-14.00	13.79-13.95	6.22-6.56	6.27-6.52	9.73-9.97	9.75-9.95	59.4-60.6	59.4-60.6	59.5-60.4	59.4-60.6	59.5-60.4	59.4-60.6	59.5-60.4	59.4-60.6	59.5-60.4
	M10x120	13.73-14.00	13.79-13.95	6.22-6.56	6.27-6.52	9.73-9.97	9.75-9.95	59.4-60.6	59.4-60.6	59.5-60.4	59.4-60.6	59.5-60.4	59.4-60.6	59.5-60.4	59.4-60.6	59.5-60.4
	M10x140	13.73-14.00	13.79-13.95	6.22-6.56	6.27-6.52	9.73-9.97	9.75-9.95	59.4-60.6	59.4-60.6	59.5-60.4	59.4-60.6	59.5-60.4	59.4-60.6	59.5-60.4	59.4-60.6	59.5-60.4
	M12x60	16.67-17.00	16.82-16.96	7.32-7.50	7.36-7.45	11.70-11.97	11.75-11.95	69.4-70.6	69.4-70.6	69.7-70.3	69.4-70.6	69.7-70.3	69.4-70.6	69.7-70.3	69.4-70.6	69.7-70.3
	M12x70	16.67-17.00	16.82-16.96	7.32-7.50	7.36-7.45	11.70-11.97	11.75-11.95	69.4-70.6	69.4-70.6	69.7-70.3	69.4-70.6	69.7-70.3	69.4-70.6	69.7-70.3	69.4-70.6	69.7-70.3
	M12x80	16.67-17.00	16.82-16.96	7.32-7.50	7.36-7.45	11.70-11.97	11.75-11.95	69.4-70.6	69.4-70.6	69.7-70.3	69.4-70.6	69.7-70.3	69.4-70.6	69.7-70.3	69.4-70.6	69.7-70.3
	M12x100	16.67-17.00	16.82-16.96	7.32-7.50	7.36-7.45	11.70-11.97	11.75-11.95	69.4-70.6	69.4-70.6	69.7-70.3	69.4-70.6	69.7-70.3	69.4-70.6	69.7-70.3	69.4-70.6	69.7-70.3
	M12x150	16.67-17.00	16.82-16.96	7.32-7.50	7.36-7.45	11.70-11.97	11.75-11.95	69.4-70.6	69.4-70.6	69.7-70.3	69.4-70.6	69.7-70.3	69.4-70.6	69.7-70.3	69.4-70.6	69.7-70.3
	M14x60	21.67-22.00	21.80-21.98	7.32-7.68	7.41-7.62	13.68-13.96	13.70-13.95	79.4-80.6	79.4-80.6	79.8-80.2	79.4-80.6	79.8-80.2	79.4-80.6	79.8-80.2	79.4-80.6	79.8-80.2
	M14x80	21.67-22.00	21.80-21.98	7.32-7.68	7.41-7.62	13.68-13.96	13.70-13.95	79.4-80.6	79.4-80.6	79.8-80.2	79.4-80.6	79.8-80.2	79.4-80.6	79.8-80.2	79.4-80.6	79.8-80.2
	M14x90	21.67-22.00	21.80-21.98	7.32-7.68	7.41-7.62	13.68-13.96	13.70-13.95	79.4-80.6	79.4-80.6	79.8-80.2	79.4-80.6	79.8-80.2	79.4-80.6	79.8-80.2	79.4-80.6	79.8-80.2
	M16x55	23.67-24.00	23.81-21.96	9.62-10.18	9.71-10.06	15.68-15.96	15.69-15.94	54.4-55.6	54.4-55.6	54.8-55.3	54.4-55.6	54.8-55.3	54.4-55.6	54.8-55.3	54.4-55.6	54.8-55.3

AB "LYTAGRA"
SERTIFIKATAMS
Sand. Nr. 5

M16x60	23.67-24.00	23.81-21.96	9.62-10.18	9.71-10.06	15.68-15.96	15.69-15.94	59.4-60.6	59.5-60.4
M16x65	23.67-24.00	23.81-21.96	9.62-10.18	9.71-10.06	15.68-15.96	15.69-15.94	64.4-65.6	64.8-65.3
M16x70	23.67-24.00	23.81-21.96	9.62-10.18	9.71-10.06	15.68-15.96	15.69-15.94	69.4-70.6	69.7-70.3
M16x80	23.67-24.00	23.81-21.96	9.62-10.18	9.71-10.06	15.68-15.96	15.69-15.94	79.4-80.6	79.6-80.2
M16x90	23.67-24.00	23.81-21.96	9.62-10.18	9.71-10.06	15.68-15.96	15.69-15.94	89.3-90.7	89.5-90.5
M16x100	23.67-24.00	23.81-21.96	9.62-10.18	9.71-10.06	15.68-15.96	15.69-15.94	99.4-100.6	99.5-100.3
M16x160	23.67-24.00	23.81-21.96	9.62-10.18	9.71-10.06	15.68-15.96	15.69-15.94	158-162	159-161
M18x80	26.67-27.00	26.68-26.55	11.28-11.72	11.32-11.71	17.62-17.96	17.63-17.93	79.4-80.6	79.6-80.3
M20x65	29.67-30	29.81-29.97	12.28-12.5	12.34-12.45	19.62-19.96	19.63-19.95	64.4-65.6	64.5-65.3
M20x70	29.67-30	29.81-29.97	12.28-12.5	12.34-12.45	19.62-19.96	19.63-19.95	69.4-70.6	69.6-70.2
M20x80	29.67-30	29.81-29.97	12.28-12.5	12.34-12.45	19.62-19.96	19.63-19.95	79.4-80.6	79.6-80.2
M20x90	29.67-30	29.81-29.97	12.28-12.5	12.34-12.45	19.62-19.96	19.63-19.95	89.4-90.6	89.6-90.3
M20x100	29.67-30	29.81-29.97	12.28-12.5	12.34-12.45	19.62-19.96	19.63-19.95	99.4-100.6	99.5-100.3
M20x120	29.67-30	29.81-29.97	12.28-12.5	12.34-12.45	19.62-19.96	19.63-19.95	119.3-120.7	119.5-120.6
M20x150	29.67-30	29.81-29.97	12.28-12.5	12.34-12.45	19.62-19.96	19.63-19.95	149.2-150.8	149.4-150.6
M24x60	35.38-36.00	25.40-35.52	14.78-15.22	14.79-15.20	23.58-23.95	23.62-23.93	59.4-60.6	59.5-60.4
M24x80	35.38-36.00	25.42-35.53	14.78-15.22	14.80-15.21	23.58-23.95	23.61-23.92	79.4-80.6	79.6-80.2
M24x90	35.38-36.00	25.40-35.56	14.78-15.22	14.85-15.22	23.58-23.95	23.59-23.94	89.3-90.7	89.5-90.5
M24x120	35.38-36.00	25.40-35.55	14.78-15.22	14.79-15.20	23.58-23.95	23.61-23.88	119.3-120.7	119.5-120.6
M6x16	9.78-10.00	9.79-9.95	3.85-4.15	3.95-4.10	5.79-5.97	5.81-5.96	15.65-16.35	15.68-16.32
M6x20	9.78-10.00	9.79-9.95	3.85-4.15	3.95-4.10	5.79-5.97	5.83-5.92	19.58-20.42	19.59-20.32
M6x40	9.78-10.00	9.79-9.95	3.85-4.15	3.95-4.10	5.79-5.97	5.84-5.95	39.5-40.5	39.6-40.3
M8x20	12.82-13.00	12.88-12.98	5.15-5.50	5.19-5.45	7.76-7.92	7.78-7.90	19.4-20.6	19.8-20.4
M8x25	12.82-13.00	12.88-12.98	5.15-5.50	5.19-5.45	7.76-7.92	7.78-7.90	24.4-25.6	24.6-25.5
M8x30	12.82-13.00	12.88-12.98	5.15-5.50	5.19-5.45	7.76-7.92	7.78-7.90	29.4-30.6	29.6-30.4
M8x35	12.82-13.00	12.88-12.98	5.15-5.50	5.19-5.45	7.76-7.92	7.78-7.90	34.5-35.5	34.67-35.36
M8x45	12.82-13.00	12.88-12.98	5.15-5.50	5.19-5.45	7.76-7.92	7.78-7.90	44.5-45.5	44.8-45.1
M8x50	12.82-13.00	12.88-12.98	5.15-5.50	5.19-5.45	7.76-7.92	7.78-7.90	49.4-50.6	49.8-50.4
M8x60	12.82-13.00	12.88-12.98	5.15-5.50	5.19-5.45	7.76-7.92	7.78-7.90	59.4-60.6	59.6-60.2
M10x25	13.73-14.00	13.79-13.95	6.22-6.56	6.27-6.52	9.73-9.97	9.75-9.95	24.4-25.6	24.6-25.5
M10x30	13.73-14.00	13.79-13.95	6.22-6.56	6.27-6.52	9.73-9.97	9.75-9.95	29.4-30.6	29.6-30.4
M10x35	13.73-14.00	13.79-13.95	6.22-6.56	6.27-6.52	9.73-9.97	9.75-9.95	34.5-35.5	34.67-35.36
M10x40	13.73-14.00	13.79-13.95	6.22-6.56	6.27-6.52	9.73-9.97	9.75-9.95	39.5-40.5	39.6-40.3
M10x50	13.73-14.00	13.79-13.95	6.22-6.56	6.27-6.52	9.73-9.97	9.75-9.95	49.4-50.6	49.8-50.4
M12x25	16.67-17.00	16.82-16.96	7.32-7.50	7.36-7.45	11.70-11.97	11.75-11.95	24.4-25.6	24.6-25.5
M12x35	16.67-17.00	16.82-16.96	7.32-7.50	7.36-7.45	11.70-11.97	11.75-11.95	34.5-35.5	34.67-35.36
M12x40	16.67-17.00	16.82-16.96	7.32-7.50	7.36-7.45	11.70-11.97	11.75-11.95	39.5-40.5	39.6-40.3
M12x45	16.67-17.00	16.82-16.96	7.32-7.50	7.36-7.45	11.70-11.97	11.75-11.95	44.5-45.5	44.8-45.1
M12x50	16.67-17.00	16.82-16.96	7.32-7.50	7.36-7.45	11.70-11.97	11.75-11.95	49.4-50.6	49.8-50.4
M12x55	16.67-17.00	16.82-16.96	7.32-7.50	7.36-7.45	11.70-11.97	11.75-11.95	54.4-55.6	54.8-55.3

DIN933-8.8 ZP

AB "LYTAGRA"
SERTIFIKATAMS
Sand, Nr. 5

PRODUCT DESCRIPTION	d1		d2		h		Value	Test Value
	Value	Test Value	Value	Test Value	Inquiry Value	Test Value		
M14x40	21.67-22.20	21.80-21.98	7.32-7.68	7.41-7.62	13.68-13.96	13.70-13.95	39.5-40.5	39.6-40.3
M14x50	21.67-22.20	21.80-21.98	7.32-7.68	7.41-7.62	13.68-13.96	13.70-13.95	49.4-50.6	49.8-50.4
M16x40	23.16-23.67	23.20-23.65	9.82-10.18	9.85-10.16	15.68-15.96	15.69-15.94	39.5-40.5	39.6-40.3
M20x50	29.16-29.67	29.25-29.63	12.28-12.72	12.34-12.72	19.62-19.96	19.63-19.95	49.4-50.6	49.8-50.4
M20x60	29.16-29.67	29.25-29.64	12.28-12.72	12.34-12.69	19.62-19.96	19.63-19.95	59.4-60.6	59.6-60.2

Note : s - width across flats , k - head height , d - diameter of thread , l - total length

PRODUCT DESCRIPTION	d1		d2		h		Value	Test Value
	Value	Test Value	Value	Test Value	Inquiry Value	Test Value		
DIN9021-ZP	M6	6.40-6.62	6.42-6.59	17.57-18.00	17.58-17.95	14-1.8	1.6	-
	M8	8.40-8.62	8.44-8.60	23.48-24.00	23.50-23.96	1.8-2.2	2.0	-
	M10	10.50-10.77	10.53-10.75	29.48-30.00	29.51-29.98	2.3-2.7	2.5	-
	M12	13.00-13.27	13.05-13.22	36.38-37.00	36.41-36.97	2.7-3.3	3.0	-
	M14	15.00-15.27	15.03-15.24	43.38-44.00	43.42-43.96	2.7-3.3	3.0	-
	M16	17.00-17.27	17.04-17.26	49.38-50.00	49.45-49.95	2.7-3.3	3.0	-
	M18	20.20-20.52	20.20-20.52	54.1-56	54.2-55.8	3.4-4.6	4.5	-
	M20	22.22-22.52	22.12-22.51	58.1-60	58.3-59.5	3.4-4.6	4.2	-
DIN127-ZP	M24	26-26.84	26.22-26.82	70.1-72	70.12-70.05	4.0-6.0	5.0	-
	M27	29.5-30.5	29.8-30.2	80.5-82	80.6-81.56	4.5-6.5	5.5	-
	M12	12.2-12.7	12.31-12.68	21.1	21	5.80-6.80	6.6	-
	M20	20.2-21.2	20.55-21.10	33.6	33.2	8.8-10.4	9.2	-
	M24	24.5-25.5	24.8-25.3	40	40	11.0-13.0	12	-
	M6	6.4-6.62	6.43-6.61	11.57-12	11.62-11.86	1.4-1.8	1.6	-
	M8	8.4-8.62	8.50-8.59	15.57-16.00	15.61-15.96	1.4-1.8	1.6	-
	M10	10.5-10.77	10.35-10.75	19.48-20.00	19.50-19.98	1.4-1.8	1.6	-
DIN125-ZP	M12	13.00-13.27	13.03-13.24	23.48-24.00	23.52-23.97	2.3-2.7	2.5	-
	M16	17.00-17.27	17.10-17.25	29.48-30	29.49-30	2.7-3.3	3	-
	M20	21-21.33	21.11-21.32	36.38-37	36.40-36.85	2.7-3.3	3.2	-

Note : d1 - Clearance hole diameter , d2 - Outside diameter , h - Thickness

C. Inspection Conclusion by SAMAKKEE SALUKPAN CO.,LTD

Goods are tested ok, as well packing.

End of Report

Samutprakarn, Thailand
 Engineer - Liyuxiu
 Director Manager - Yu Liangbin

