



CERTIFICATE OF CONFIRMITY

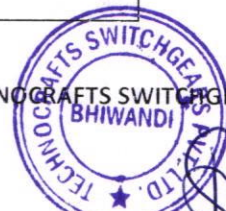
Ref: TSPL/COC-3287-SR

Date:07.09.2021

This is to certify that the following items confirm to the technical specifications and functional requirements as per Drawings and found suitable for use in the final product mentioned against the same.

S.No.	Item Description	Make	Final product
1	L/R Switch	Switron	36kV VCB ICOG Panels
2	(T/N/C Switch)	Switron	
5	CRM Relay	ABB	
6	Indication Lamps	L&T Esbee	
7	Push Button	L&T Esbee	
8	MCB	ABB	
9	Terminal	Connectwell	
10	5 PIN SOCKET + SWITCHES	PRESSFIT	
11	3 Point lock - BREAKER DOOR	TSPL	
12	2 Point lock - METERING DOOR	TSPL	

For TECHNOCRAFTS SWITCHGEARS PVT. LTD.,



Quality Assurance Engineer



IS 513 PART 1

CML - 3330339

JSW STEEL LIMITED

Vijayanagar Works, PO- Vidyannagar, Village-Toranagalli, Dist: Bellary, Karnataka-583275, INDIA
Regd. Office: JSW Centre, Bandra Kurla Complex, Bandra (East), Mumbai - 400 051

TEST CERTIFICATE FOR COLD REDUCED LOW CARBON STEEL SHEET & STRIP

(According to EN 10204 Type 3.1)

Test Certificate : CRCA/20-21/0001820143

Date : 10.04.2021

SO No / Item : 401292631/20

Product : CRCA

PO No. : RETAIL PRIME

JS/861

It is certified that the material described below fully conforms to IS 513 PART 1. Chemical composition and Mechanical properties of the product, as tested in accordance with the Scheme of Testing & Inspection contained in the BIS certification marks Licence No. CML - 3330339 are as indicated below against each order No. Etc.
(PLEASE REFER TO IS 513 PART 1 FOR DETAILS OF SPECIFICATION REQUIREMENTS)

TEST RESULTS

Specification: IS 513_PART1_2016 CR2										QTY												
										(MT)												
Heat No.	Coil No.	Nominal Size (MM)					Min															
		T	X	W	X	L		C %	Mn %	S %	P %	Si %	Al %	N %	YS (MPa)	UTS (MPa)	GL (mm)	EL %	Hard (HRC)	Hard Raµm		
Mother Coil	F044727 L110640000	2 020 X 1540 0 X C-01					Max	0.1200	0.50	0.035	0.040		0.070	0.0070	240	370				1.60		
							14.065	0.0340	0.21	0.006	0.013	0.010	0.048	0.0030	221	338	50	45.30	50.0	1.13		
Total Weight in Metric Tonnes							14.065	Grand Total of Coils/Pkts/Bundles/Slab												1		

This is to certify that the above mentioned product produced & supplied by JSW Steel Ltd do not contain any radio active element higher than the natural level and it conforms to Standard Rolling, Dimensional & Weight tolerances. The product or packing material does not contain any hazardous substances as per RoHS norms

Delivery ID : 709581344

Invoice No : 7103268639

GST Invoice No : 20VJ2900396489

Mode of Transport : Rail

Vehicle No :

FC No.

Legends:

Chemistry = Laddie Sample analysis, 1Mpa= 1N/mm²; T x W x L = Thickness x Width x Length
YS= Yield Strength, UTS = Ultimate Tensile Strength, %El = %gt Flattening on standard gauge length

Remarks :



L. G. Naik

L. G. NAIDU

Authorised Signatory

For JSW Steel Ltd.



JSW STEEL LIMITED

Vijayanagar Work Centre, Bellary, Karnataka - 575105, INDIA
Regd. Office : W Centre, Bandra Kurla Complex, Bandra (East), Mumbai - 400 051



TEST CERTIFICATE FOR COLD REDUCED LOW CARBON STEEL SHEET & STRIP

Test Certificate : CRCA/18-19/0001149571

Date : 15.02.2019
SO No./ Item : 400960749 / 60
Product : CRCA
PO No. : RETAIL PRIME

It is certified that the material described below fully conforms to IS 513, PART 1. Chemical composition and Mechanical properties of the product, as tested in accordance with the Scheme of Testing & Inspection contained in the BIS certification marks Licence No. CMIL - 3330339 are as indicated below against each order No. Etc.
(PLEASE REFER TO IS 513, PART 1 FOR DETAILS OF SPECIFICATION REQUIREMENTS)

TEST RESULTS

Specification: IS 513_PART1_2016 CR2														QTY (MT)					
Cast / Heat No. Mother Coil	Coil Number	Nominal Size (MM)					Min												
		T	X	W	X	L	C %	Mn %	S %	P %	Si %	Al %	N %	YS (MPa)	UTS (MPa)	QL (mm)	EL %	Hard (HRB)	Ra µm
B104946	9232220000	3.000 X 1245.0 X Coil					0.1200	0.50	0.035	0.040	0.070	0.0120	240	370					0.70
9232220000							0.0420	0.26	0.010	0.016	0.006	0.0026	198	312					1.60
Total Weight in Metric Tonnes																			
Grand Total of Coils/Pkt/Bundles							21.115												
							1												

JP-2008

This is to certify that the above mentioned product produced & supplied by JSW Steel Ltd do not contain any radio active element higher than the natural level and it confirms to Standard Rolling & Weight tolerances. The product or packing material does not contain any hazardous substances as per RoHS norms.

Delivery ID : 707048734	Legends: Chemistry = Ladle Sample analysis; 1MPa= 1N/mm ² ; T x W x L = Thickness x Width x Length YS= Yield Strength; UTS = Ultimate Tensile Strength, %EL = %Elongation on standard gauge length
Invoice No. : 7101676439	
GST Invoice No : 18VJ2900580644	
Mode of Transport: Rail	
Vehicle No. :	
Remarks :	

L.G. Naik

L.G. NAIDU

Authorised Signatory

For JSW Steel Ltd.



TEST CERTIFICATE FOR COLD REDUCED LOW CARBON STEEL SHEET & STRIP

Test Certificate : CRCA/18-19/0001140222

Date : 07.02.2019

SO No./ Item : 400956565 / 20

Product : CRCA

PO No. : RETAIL PRIME

It is certified that the material described below fully conforms to IS 513 PART1. Chemical composition and Mechanical properties of the product, as tested in accordance with the Scheme of Testing & Inspection contained in the BIS certification marks Licence No. CML - 3330339 are as indicated below against each order No. Etc.
 (PLEASE REFER TO IS 513 PART1 FOR DETAILS OF SPECIFICATION REQUIREMENTS)

TEST RESULTS

Specification: IS 513 PART1_2015 CR2									
Cast / Heat No. Mother Coil	Coll Number	Nominal Size (MM)			QTY (MT)	C %			
		T	X	W X L		Min	Max	Min	Max
3403974 915932000	915932000	2.500	X	1245.0 X Coil	20.585	0.1200	0.50	0.036	0.040
Total Weight in Metric Tonnes						0.0470	0.25	0.010	0.012
Grand Total of Coils/Pkt/Bundles						0.020			
						0.070	0.0120	0.070	0.0720
						0.050	0.0030	0.050	0.0030
						50	31.00	50	48.00
						0.70		0.70	
						1.80		1.80	
						0.97		0.97	

JP-1943

This is to certify that the above mentioned product produced & supplied by JSW Steel Ltd do not contain any radio active element higher than the natural level and it confirms to Standard Rolling & Weight tolerances. The product or packing material does not contain any hazardous substances as per RoHS norms.

Delivery ID : 707009154

Invoice No : 7101653285

GST Invoice No : 18VJ2900564876

Mode of Transport: Rail

Vehicle No. :

Legends:

Chemistry = Laddle Sample analysis 1Mpa = 1N/mm² ; T x W x L = Thickness x Width x Length
 YS = Yield Strength ; UTS = Ultimate Tensile Strength, %El = %Elongation on standard gauge length

Remarks :

L.G. Naik

L.G. NAIDU

Authorised Signatory

For JSW Steel Ltd.



TEST CERTIFICATE

swarajenterprise19@gmail.com

Date : 05/08/2021

Product Specification : Thermostat 140 MM, 0-75C, 20A, 230V,
With Fixing Bracket.

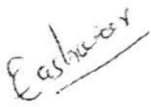
Customer Name : Technocrafts Switchgears Pvt Ltd.

Invoice No. : SE/Inv/025/21-22

Quantity : 50 Nos.

Buyer Order No. & Date : PO07211485 Dated 31/07/2021

Sr. No.	Description	Test Method	Result
1	Brass Tube Thickness Checking	Visual Check	OK
2	Fixing BKT Dimension Checking	Visual Check	OK
3	Dimensions & Marking Checking	Visual Check	OK
4	Finishing Checking	Visual Check	OK
5	Insulation Level: 2Kv for 01 Min	IS: 302 CI.13.3	OK
6	Operating Temperature: Must be within +/- 8°C	IS:301.7 CI.103.1	OK
7	Differential Temperature: Must not exceed 13°C	IS: 301.7 CI.103.1	OK

Quality Checking	Tested By	Approved By
		



TEST CERTIFICATE

swarajenterprise19@gmail.com

Date : 05/08/2021

Product Specification : Panel Heater 100 W/240 V, End Fixing,
Without Perforated Cover

Material Code : 100 W / 240 V

Customer Name : Technocrafts Switchgears Pvt Ltd.

Invoice No. : SE/Inv/025/21-22

Quantity : 100 Nos.

Buyer Order No. & Date : PO07211485 Dated 31/07/2021

Sr. No.	Description	Test Method	Result
1	Aluminium Black Anodizing Checking Micron	Visual Check	OK
2	Fixing BKT Dimensions Checking	Visual Check	OK
3	Porcelain Connector Screw & Terminal Checking	Visual Check	OK
4	Coil Resistance Checking	Visual Check	OK
5	High Voltage Testing: 2Kv 01 Min	IS: 302 CI.13.3	OK
6	Power Tolerance: +/- 5%	IS:302 CI.10.1	OK
7	Leakage Current must not exceeds 210 μ Amps	IS: 302 CI.13.2	OK

Quality Checking	Tested By	Approved By



TEST CERTIFICATE

swarajenterprise19@gmail.com

Date : 05/08/2021

Product Specification : Panel Heater 200 W/240 V, End Fixing,
Without Perforated Cover

Material Code : 200 W / 240 V

Customer Name : Technocrafts Switchgears Pvt Ltd.

Invoice No. : SE/Inv/025/21-22

Quantity : 50 Nos.

Buyer Order No. & Date : PO07211485 Dated 31/07/2021

Sr. No.	Description	Test Method	Result
1	Aluminium Black Anodizing Checking Micron	Visual Check	OK
2	Fixing BKT Dimensions Checking	Visual Check	OK
3	Porcelain Connector Screw & Terminal Checking	Visual Check	OK
4	Coil Resistance Checking	Visual Check	OK
5	High Voltage Testing: 2Kv 01 Min	IS: 302 CI.13.3	OK
6	Power Tolerance: +/- 5%	IS:302 CI.10.1	OK
7	Leakage Current must not exceeds 210 μ Amps	IS: 302 CI.13.2	OK

Quality Checking	Tested By	Approved By



TEST CERTIFICATE

swarajenterprise19@gmail.com

Date : 31/07/2021

Product Specification : Panel Heater 200 W/240 V Without Perforated Cover
End Fixing

Material Code : 200 W / 240 V

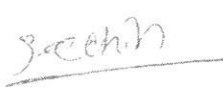
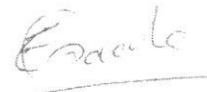
Customer Name : Technocraft Switchgears Pvt Ltd.

Invoice No. : SE/Inv/022/21-22

Quantity : 50 Nos.

Buyer Order No. & Date : PO07211485 Dated 31/07/2021

Sr. No.	Description	Test Method	Result
1	Aluminium Black Anodizing Checking Micron	Visual Check	OK
2	Fixing BKT Dimensions Checking	Visual Check	OK
3	Porcelain Connector Screw & Terminal Checking	Visual Check	OK
4	Coil Resistance Checking	Visual Check	OK
5	High Voltage Testing : 2Kv 01 Min	IS: 302 CI.13.3	OK
6	Power Tolerance : +/- 5%	IS:302 CI.10.1	OK
7	Leakage Current must not exceeds 210 μ Amps	IS: 302 CI.13.2	OK

Quality Checking	Tested By	Approved By
		

POLYCAB INDIA LIMITED

TYPE TEST CERTIFICATE

CUSTOMER :-

INVOICE NO :-

SIZE: 1 CORE X 1.5 SQ. MM

Voltage Grade:- 1100 VOLTS

TYPE :Y (FR-LSH)

DATE: 10.07.2020

COIL LENGTH: 100 Mtrs.

DESCRIPTION:- Polycab make 1100V, Flexible copper conductor, Type "D" FR-LSH PVC insulated single core unsheathed cable.

SR. NO.	DESCRIPTION	UNITS	REQUIREMENTS	OBSERVATIONS
1	CONDUCTOR			
a.	Resistance at 20°C	Ohm/Km	Max.13.30	13.248
b.	Annealing Test for Cu.*	%	Min: 13.5	21
2	INSULATION			
2.1	Thickness			
a.	Minimum	mm	Min. 0.44	0.55
b.	Average	mm	Min. 0.60	0.63
2.2	Without Ageing.			
a.	Tensile Strength	N/Sq.mm	Min.10.0	14.83
b.	Elongation at break	%	Min.150	235
2.3	After Ageing in air oven.** (70 ± 2°C for 168 Hrs.)			
a.	Tensile Strength	N/Sq.mm	Min.10.0	15.33
b.	Variation in T.S.	%	Max. ± 20	-3.37
c.	Elongation at break	%	Min.150	227
d.	Variation in Elong.	%	Max. ± 20	3.40
2.4	Loss of mass test ** (80 ± 2°C for 168 Hours)	Mg/Cm ²	Max. 2	0.17
2.5	Shrinkage Test. (150 ± 2°C for 15 Min.)	%	Max. 6	1.00
2.6	Heat Shock Test. (150 ± 2°C for 1 Hour)	-	No Sign's of cracks or scales	PASS
2.7	Hot Deformation Test. (80 ± 2°C for 4 Hours) Depth of Indentation	%	Max.65	14.49
2.8	Thermal stability test (200 ± 0.5°C)	Minutes	Min. 80	106
2.9	Cold bend test (for OD<12.5 mm) (- 15°C for 2 Hours)	-	No Signs of cracks or scales	PASS
2.10	Volume Resistivity			
a.	At 27°C	Ohm-cm	Min.1 X 10 ¹²	6.94 X 10 ¹³
b.	At 70°C	Ohm-cm	Min.1 X 10 ⁹	15.84 X 10 ¹⁰
2.11	Insulation Resistance Constant			
a.	At 27°C	MΩ-km	Min. 3.67	256
b.	At 70°C	MΩ-km	Min. 0.004	0.638
3.0	High Voltage Test (3 Kv AC for 5 Minutes/On line spark Testing)	kV	Break down should not occur	
3.1	High Voltage Test ** Water Immersion A.C. Followed by D.C		6. kV AC For 5 Minutes 1.2 kV D.C. for 240 Hours	WITHSTOOD
4.0	Flammability Test	Seconds	Period of burning after removal of flame:Max. 60 seconds Unaffected length Min.50 mm.	1 354
5.0	Overall Diameter (OD)	mm	Approx. 2.67	2.78
6.0	ADDITIONAL TEST - FR-LSH PVC			
a.	Oxygen index test-ASTMD2863-77	%	Min. 29	30.5
b.	Temperature Index-ASTMD2863	°C	Min.250	356
c.	Smoke density test -ASTMD2843	%	Max.60	53.61
d.	HCL Gas Emission IEC-754-1	%	Max.20	13.71
e.	Swedish Chimney SS 424 1475F3	mm	Unaffected length from the top 300 mm	491

Note: The Cable has been tested for above tests and found meeting the requirements , as per IS 694-2010.
*Before stranding / **Batch Test.

Tested By:




Approved By:



POLYCAB INDIA LIMITED

TYPE TEST CERTIFICATE

CUSTOMER :-

INVOICE NO :-

SIZE: 1 CORE X 2.5 SQ. MM

TYPE: Y (FR-LSH)

DATE: 14.07.2020

COIL LENGTH: 100 Mtrs.

Voltage Grade:- 1100 VOLTS

DESCRIPTION:- Polycab make 1100V, Flexible copper conductor, Type "D" FR-LSH PVC insulated single core unsheathed cable.

SR. NO.	DESCRIPTION	UNITS	REQUIREMENTS	OBSERVATIONS
1	CONDUCTOR			
a.	Resistance at 20°C	Ohm/Km	Max. 7.98	7.917
b.	Annealing Test for Cu.*	%	Min: 13.5	22
2	INSULATION			
2.1	Thickness			
a.	Minimum	mm	Min. 0.53	0.63
b.	Average	mm	Min. 0.70	0.76
2.2	Without Ageing.			
a.	Tensile Strength	N/Sq.mm	Min. 10.0	14.84
b.	Elongation at break	%	Min. 150	246
2.3	After Ageing in air oven.** (70 ± 2°C for 168 Hrs.)			
a.	Tensile Strength	N/Sq.mm	Min. 10.0	15.36
b.	Variation in T.S.	%	Max. ± 20	-3.50
c.	Elongation at break	%	Min. 150	235
d.	Variation in Elong.	%	Max. ± 20	4.47
2.4	Loss of mass test ** (80 ± 2°C for 168 Hours)	Mg/Cm ²	Max. 2	0.24
2.5	Shrinkage Test. (150 ± 2°C for 15 Min.)	%	Max. 6	1.26
2.6	Heat Shock Test. (150 ± 2°C for 1 Hour)	-	No Sign's of cracks or scales	PASS
2.7	Hot Deformation Test. (80 ± 2°C for 4 Hours) Depth of Indentation	%	Max. 65	19.73
2.8	Thermal stability test (200 ± 0.5°C)	Minutes	Min. 80	116
2.9	Cold bend test (for OD < 12.5 mm) (- 15°C for 2 Hours)	-	No Signs of cracks or scales	PASS
2.10	Volume Resistivity			
a.	At 27°C	Ohm-cm	Min. 1 X 10 ¹²	8.67 X 10 ¹¹
b.	At 70°C	Ohm-cm	Min. 1 X 10 ⁹	23.87 X 10 ¹⁰
2.11	Insulation Resistance Constant			
a.	At 27°C	MΩ-km	Min. 3.67	271
b.	At 70°C	MΩ-km	Min. 0.004	0.638
3.0	High Voltage Test (3 Kv AC for 5 Minutes/On line spark Testing)	kV	Break down should not occur	WITHSTOOD
3.1	High Voltage Test ** Water Immersion A.C. Followed by D.C		6. kv AC For 5 Minutes 1.2 kv D.C. for 240 Hours	WITHSTOOD
4.0	Flammability Test	Seconds	Period of burning after removal of flame: Max. 60 seconds Unaffected length Min. 50 mm.	1 352
5.0	Overall Diameter (OD)	mm	Approx. 3.3	3.39
6.0	ADDITIONAL TEST - FR-LSH PVC			
a.	Oxygen index test-ASTMD2863-77	%	Min. 29.0	30.5
b.	Temperature Index-ASTMD2863	°C	Min. 250	356
c.	Smoke density test-ASTMD2843	%	Max. 60	51.76
d.	HCL Gas Emission IEC-754-1	%	Max. 20	12.61
e.	Swedish Chimney SS 424 1475F3	mm	Unaffected length from the top 300 mm	492

Note: The Cable has been tested for above tests and found meeting the requirements, as per IS 694-2010.

*Before stranding / **Batch Test.

Tested By:




Approved By:



**SUDAL INDUSTRIES LTD.**

A-5, MIDC, AMBAD, NASHIK-422010

TEST CERTIFICATE

Q - 14

SERIAL NO : 5463 DATE : 24/01/2021
INVOICE NO : SILG 202114453 DATE : 24/01/2021
PARTY NAME : TECHINOCRAFTS SWITCHGEAR PVT LTD
ORDER NO : PO12202373 ORDER DATE : 11/12/2020
STANDARD : IS5082:1998
SECTION NO : P60038 SIZE : AL FLAT 400 X 100 MM A/T : 6101 T6E91 (63501) WP

**QUANTITY**

NO. OF PCS :	448			
QTY IN KGS :	1643.0			
CUT LENGTH :	3660 MM			

CHEMICAL COMPOSITION IN %

Si	Fe	Mn	Mg	Cu	Ti	Zn	Cr	Al
0.486	0.269	0.015	0.553	0.045	0.0089	0.034	0.012	REMAINDER

REQUIRED :

0.3-0.7	0.50 MAX	0.03 MAX	0.4-0.9	0.05 MAX	0.10 MAX	0.10 MAX	0.03 MAX	REMAINDER
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MECHANICAL & ELECTRICAL PROPERTIES

UTS Kg/mm ²	0.2% P.S. Kg/mm ²	% ELONG	CONDUCTIVITY	HARDNESS
24.727	22.349	13.42	37.8	56,57,58 BHN

REQUIRED :

20.40 MIN	17.34 MIN	10 % MIN	55 % IACS MI	55 BHN MIN
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REMARKS : CAST NO. A55



FOR, SUDAL INDUSTRIES LTD.

This Certificate is computer generated no Signature required.

CIN NO : L21541MH1979PLC021541



PREPARED BY

QUALITY ASSURANCE ENGINEER

QUALITY ASSURANCE MANAGER



BHARAT INDUSTRIES

MFG. BRASS & COPPER BUSBAR / SHEETS OF ALL GRADE

Plot no 46, Ramtekadi Industrial Estate, Hadapsar, Pune - 411013

Ph. Telefax: (020) 26811119

bharatindustries00@ymail.com

MATERIAL TEST CERTIFICATE

Customer Name	Technocrafts Switchgears (P) Ltd BHIWANDI	TC NO	T/1217/ 20/21	DATED	02.03.2021
		INVOICE NO	1217	DATED	02.03.2021
		PO NO	P002213227A	DATED	15.02.2021
		QUANTITY	2904.600 KGS	NOS	53 BDLs
		BATCH NO	17/02/EC/1339/5	DATED	17.02.2021

SPECIFICATION: - ETP GRADE COPPERIS: 191 PART V

Material Description: COPPER ROD / BUSBAR / SQUARE

Temper: Half Hard in Straight Length

A) Chemical Composition :-

Elements	Cu	Pb	Bi	Others	Remark
Specified	99.90 min	0.005 max	0.001 max	0.03 max	OK
Observed	99.97	0.003	0.001	0.026	OK

B) Dimensional Report :

Dimension ->	20X3		30X6		NA	
Parameters	Specified	Observed	Specified	Observed	Specified	Observed
Width	20.00	20.02	30.00	29.98	NA	NA
Thickness	3.00	3.05	6.00	5.98	NA	NA
Radius	R1	R1	FR	FR	NA	NA

C) Mechanical Properties:-

Parameter	Specified	Observed	Specified	Observed	Specified	Observed
Hardness	75 - 90 HV	85.30 HV	75 - 90 HV	82.10	75 - 90 HV	NA
Bend Test	OK	OK	OK	OK	OK	NA
Tensile Strength(MIN)	230	245	230	248	NA	NA
Elongation (%)(MIN)	18	23	18	25	NA	NA

D) Electrical Properties :-

Parameter	Specified	Observed	Remark
Conductivity in % IACS	97 min	98.0 - 99.0 %	OK
Visual Remark	OK		
Checked By :- R GAJENDRA			
 Authorised Signatory			

B-34, Nand Bhavan Industrial Estate,
Mahakali Caves Road, Andheri (East),
Mumbai - 400 093. INDIA
Email : pristine.engg@gmail.com
info@pristineengg.in
Tel.: 022 28398848/49/50
CIN No. : U51521MH2011PTC219234

Pristine
ENGG SERVICES PVT. LTD.
SOLUTION IN ELECTRICAL ENGG.
TRANSFORMER • CABLE JTG. KITS ACCESSORIES
• MV/HVDC SWITCHGEAR • CROMPTON DLTG

Hongshang

QUALITY CERTIFICATE OF HEAT SHRINKABLE TUBING

Product Name: HBTM		Quantity: 255		
Product Size: $\Phi 50.0/20.0$		LOT No: 186471/210		
Colour: Red		Customer: Technocrafts Switchgears (P) Ltd.		
Item		Standard Value	Check Value	Check result
AS Supplied	ID(mm)	≥ 50.0	51.90	PASS
	Eccentricity(%)	≤ 30	20	PASS
After Shrinking	ID(mm)	≤ 20.0	19.95	PASS
	Wall thickness(mm)	≥ 2.5	2.8	PASS
L/C(%)		$\pm 10\%$	-0.4	PASS
Tensile strength(Mpa)		≥ 11.0	12.0	PASS
Ultimate Elongation(%)		≥ 200	650	PASS
Minimum Shrink Temperature		110°C	110°C	PASS
Appearance		No defects	No defects	PASS
Color		Homogenous	Homogenous	PASS

QC		Checked by
		

Date: 11.11.2020

**R PRESSGEL INSULATIONS
PRIVATE LIMITED.**

System Manual Level - II (Q.C.I function)
FINISH PRODUCT TEST REPORT

Doc.No.:	Q.C.D./F/02/01
Rev.No.:	01
Effe. Date:	01/02/2005
Page No.:	01 OF 01

Customer Name: TECHNOCRAFTS SWITCHGEARS PVT.LTD,
Purchase Order No.: PO 09201069, 1/9/20
Description: 33KV EPOXY INSULATOR WITH MS INSERT SIZE: 70X300 PG 02
MGP NO. 301 Date: 26-09-20 Inv.No.: 301 Qty.: 40 NOS

No.	Parameters to be checked	Required	Observed	Remarks
1	Dimensions			
	Height	300 MM	300.07 MM	OK
	Diameter	70MM	70.03 MM	OK
2	Creepage Distance	410 MM	411MM	OK
3	H.V.Test	72 KV/1 MIN	100%	OK
4	Flashover voltage test	90 KV	obtained >90kv	OK
5	Cantilever Test /Tengential Load with Stand	850 KGF	965 KGF	OK
6	Tensile Failing Test	—	4840KGF	OK
7	Compression Failing Test	—	—	—
8	Partial Discharge Test	—	—	—
9	Insert Threading	M10,M8,M16	CHECKING	OK
10	Rated Voltage	33 KV	100%	OK
11	Physical Apperance	100%	Satisfaction	OK
12	Finishing	Visually Good	Visually Good	OK

Approved/Rejected

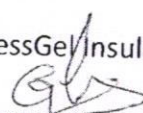
Inspected by 

Date: 26-09-20

Approved by 

Note: We guarantee the performance of the items as per above details for a period of 12 months from the date of despatch or 18 months from the date of commissioning whichever is earlier if any defect is noticed during this period we agree to effect free replacement.

For PressGel Insulations Private Limited


AUTHORISED SIGNATURE



**PRESSGEL INSULATIONS
PRIVATE LIMITED.**

System Manual Level - II (Q.C.I function)
FINISH PRODUCT TEST REPORT

Doc.No.:	Q.C.D./F/02/01
Rev.No.:	01
Effe. Date:	01/02/2005
Page No.:	01 OF 01

Customer Name: TECHNOCRAFTS SWITCHGEARS PVT.LTD,
Purchase Order No.: PO 09201362, 24/9/20
Description: 33 KV EPOXY INSULATOR WITH MS INSERT SIZE OF INSU. (100x300) PG-028
Challan No.: 302 Date: 26-09-20 Inv.No.: 302 Qty.: 50 NOS

Sl. No.	Parameters to be checked		Required	Observed	Remarks
1	Dimensions	Height	300 MM	300.11 MM	OK
		Diameter	100 MM	100.07 MM	OK
2	Creepage Distance		490 MM	490MM	OK
3	H.V.Test		72 KV/1 MIN	100%	OK
4	Impulse withstand Voltage		—	—	—
5	Cantilever Test /Tengential Load with Stand		1000 KGF	1020 KGF	OK
6	Tensile Failing Test		—	—	—
7	Compression Failing Test		—	—	—
8	Partial Discharge Test		—	—	—
9	Insert Threding Brass insert		M16,M10,M20	CHECKING	OK
10	Rated Voltage		33 KV	100%	OK
11	Physical Apperance		100%	Satisfaction	OK
12	Pressure Test		—	—	—
13	Finishing		Visually Good	Visually Good	OK

Approved/Rejected

Inspected by:

Date: 26-09-20

Approved by:

Note: We guarantee the performance of the items as per above details for a period of 12 months from the date of despatch or 18 months from the date of commissioning whichever is earlier if any defect is noticed during this period we agree to effect free replacement.

For PressGel Insulations Private Limited

AUTHORISED SIGNATURE

**BARODA BUSHINGS & INSULATORS LLP**

"EPOXY HOUSE", 746/1-2, G.I.D.C. Estate, Makarpura Road, Vadodara - 390 010.
WORKS : A-2/628-629 G.I.D.C. Estate, Makarpura Road, Vadodara - 390 010

Phone : (0265) 2642878/2641083

Fax : (0265) 2640821

E-mail : bbi@epoxyhouse.com

Web : www.epoxyhouse.com

T.C. NO. : BBI/TC/DA/21-22/02563

DATE : 10/08/2021

TEST CERTIFICATE

CUSTOMER NAME : M/s. TECHNOCRAFT SWITCHGEAR PRIVATE LIMITED., BHIWANDI

ITEM DESCRIPTION : ZS2 BUSHINGS WITH GRADING RING WITH MACHINING

DRAWING NO. : 1YTW573426-048 , REV. : C

PURCHASE ORDER NO. : PO07211251, DATE : 13/07/2021

QUANTITY SUPPLIED : 30 Nos.

OUR CHALLAN NO. : DA/21-22/02563, DATE : 10/08/2021

ITEM NOTE : : CHOCOLATE BROWN COLOUR

TESTS : AS PER SPECIFICATION MENTIONED IN DRAWING.

Sr. No.	Description of Tests Carried Out	Qty. Tested	Required Value	Observed Value	Instruments Used For the Tests
1)	Dry Power Frequency Voltage Withstand Test	30 Nos.	70 kV for one minute	Withstood	HV Tester
2)	Radiography test (X-Ray)	30 Nos.	Bushings should be free from Cracks, Pin holes, Blow holes.	No cracks, Pin holes, Blow holes observed.	By High Resolution X - Ray Machine
3)	Dimensional checking	02 Nos.	As per Drawing	Dimensions found within tolerances as per drawing.	By Vernier Caliper.
4)	Visual Inspection / Surface Finish	30 Nos.	Bushing should be free from Cracks, Pin holes, Blow holes, Moulding defects etc. Surface finish should be smooth.	No cracks, Pin holes, Blow holes & other moulding defects observed on the surface of Bushing.	Visual

NOTE : We Guarantee the performance of the items as per above details for a period of 18 Months from date of despatch or 12 Months from the date of commissioning whichever is earlier and if any defect is noticed during this period we agree to give free replacement.

TESTED BY

DIMPLE PUWAR

APPROVED BY

HARISH MACHHI



ARIHANT Arihant panelfittings private limited

Date: -20/02/2021

Customer name: -Technocraft

Invoice number: -2021/04903

Invoice quantity: 500 mtr

TEST REPORT

Product Name		Clip-On Gasket EPDM Top bulb-FD 9925		
Material		EPDM		
Subject		Product Performance Test		
EPDM SPONGE				
Sr. No.	Characteristics checked	Standard Followed	Technical Spec. Specification	Technical Spec. Observed
1	Material		EPDM	EPDM
2	Specific Gravity	ISO 2781	0.65 ±0.05	0.66
3	Ozone Resistant's 50 PPHM/40 Degree/2% Strain/ 72 Hrs.	ASTM D- 1149	No Crack	No Crack
EPDM SOLID				
1	Material		EPDM	EPDM
2	Hardness (Shore A)	ASTM D- 2240	75 ± 5	70
3	Tensile Strength (Kg/Cm2)	ASTM D- 412	70 Minimum	102.12
4	Elongation @ Break %	ASTM D- 412	250 Minimum	480
5	Heat Ageing Test 70 Degree/70 Hrs.			
	Change in Hardness (Shore A)	ASTM D- 2240	+10/-5	-2
	Change in Tensile Strength (Kg/Cm2)	ASTM D- 412	-25 Maximum	+9.95
	Change in Elongation %	ASTM D- 412	-35 Maximum	-20.83
6	Compression Test at 70 Degree/24 Hrs.	ASTM D-395	50 Maximum	26.55
7	Ozone Resistant's 50 PPHM/40 Degree/2% Strain/ 72 Hrs.	ASTM D- 1149	No Crack	No Crack
Authorized By, For, Arihant panel fittings private limited				
				
Bimal shah- Quality Engineer				

Certificate of Analysis

Certificate Type:

Insp. certificate "3.1" EN

10204

Date printed: DEC/03/2020

سابك
sabic

Pranav Engineering Works
Sandhya Praveen Burkule
L-5, MIDC, Amabad
Maharashtra
422010
NASHIK
India

Shipped from details:

SABIC INNOVATIVE PLASTICS INDIA
PRIVATE LIMITED
Plastics Avenue
391320
VADODARA
India

Material Number	22050075
Material Description	SP-8230-2.800-1220.0-2440-000
Material Group	CARBORON™ sheet
Batch Number	0015743378
Manufacturing Plant	Vadodara
Manufacturing Date	NOV/02/2020
Sales Order	3513286
Delivery	803210701
Customer PO Number	PEW-041120-05

Characteristic	Unit	Value	Lower Limit	Upper Limit	Inspection method
GAUGE IN MM	mm	2.721 ✓	2.660	2.940	SABIC
TRANSMITTANCE	%	29.20 ✓	27.00	33.00	ASTM D1003

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Lexan* 9030 P

Product Datasheet

Description

Lexan* 9030 P sheet is the standard Lexan sheet without UV nor Mar resistant surface treatment. Lexan 9030 P sheet combines high impact and temperature resistance with optical clarity and can be utilized for secondary glazing behind existing glazing for economical protection against breakage or intrusion. Lexan 9030 P sheet can be cut, sawn, drilled and milled by using standard workshop equipment without the risk of cracking and breakage and is therefore an excellent candidate for fabricating a wide range of indoor applications such as machine guards etc. Lexan 9030 P sheet can be easily thermoformed into complex parts while retaining its excellent properties necessary for demanding applications such as vandal proof street furniture. Lexan 9030 P sheet may be decorated using a wide variety of modern techniques such as painting and screen printing.

Typical Property Values ♦

Property	Test Method	Unit	Value
Physical			
Density	ISO 1183	g/cm ³	1.20
Water absorption, 50% RH / 23 °C	ISO 62	%	0.15
Water absorption, saturation /23°C	ISO 62	%	0.35
Mould shrinkage	SABIC-Method	%	0.6-0.8
Poison's ratio	ASTM-D638	-	0.38
Mechanical			
Tensile stress at yield 50 mm/min	ISO 527	MPa	60
Tensile stress at break 50 mm/min	ISO 527	MPa	70
Tensile strain at yield 50 mm/min	ISO 527	%	6
Tensile strain at break 50 mm/min	ISO 527	%	120
Tensile modulus 1 mm/min	ISO 527	MPa	2300
Flexural stress at yield 2 mm/min	ISO 178	MPa	90
Flexural modulus 2 mm/min	ISO 178	MPa	2300
Hardness H358/30 95	ISO 2039/1	MPa	95
Impact			
Charpy impact, notched	ISO 179/1C	kJ/m ²	35
Izod impact, unnotched 23°C	ISO 180/4U	kJ/m ²	NB
Izod impact, unnotched -30°C	ISO 180/4U	kJ/m ²	NB
Izod impact, notched 23°C	ISO 180/4A	kJ/m ²	65
Izod impact, notched -30°C	ISO 180/4A	kJ/m ²	10
Thermal			
Vicat Softening Temperature, rate B/120	ISO 306	°C	145
HDT/Ae, 1.8 MPa edgew. 120*1*04/sp=100	ISO 75	°C	127
Thermal conductivity	ISO 8302	W/m.°C	0.2
Coeff.of Lin.Therm.Exp.extr. 23-80°C	ISO 11359-2	1/°C	7.00 E-05
Ball pressure test 125 ±2°C	IEC 60695-10-2	-	Passes
Relative Thermal Index. Electrical Properties	UL746B	°C	130
Relative Thermal Index. Mech. prop.with impact	UL746B	°C	125
Relative Thermal Index. Mech.prop.w/o impact	UL746B	°C	125
Electrical			
Volume Resistivity	IEC 60093	Ohm.cm	10 E15
Relative Permittivity 50/60Hz	IEC 60250	-	2.7
Relative Permittivity 1Mhz	IEC 60250	-	2.7
Dissipation Factor 50/60 Hz	IEC 60250	-	0.001
Dissipation Factor 1 Mhz	IEC 60250	-	0.01
Arc Resistance Tungsten	ASTM-D495	sec.	119
Optical			
Light transmission *) 3mm	ASTM-D1003	%	88

♦ These property values have been derived from Lexan*resin data for the material used to produce this sheet product. Variation within normal tolerances are possible for various colors. These typical values are not intended for specification purposes. If minimum certifiable properties are required please contact your local SABIC Innovative Plastics, Specialty Film & Sheet representative. All values are measured at least after 48 hours storage at 23°C/50% relative humidity. All properties are measured on injection molded samples. All samples are prepared according ISO 294.

*) Light transmission value may vary by + or - 5%.

* Trademarks of SABIC Innovative Plastics IP BV

Lexan*

Light transmission

Transparent Lexan 9030 P sheet have excellent light transmission, dependent of thickness between 82% - 87%

Fire performance

Lexan* 9030 P sheet has good fire behavior characteristics. Lexan sheet does not contribute significantly to the spread of fire or to the generation of toxic gases. For details please contact your local sales office.

Product Availability *)

Standard gauge in mm:	2mm - 10mm
Standard width:	1220mm and 2050mm
Standard Color:	Clear 112 and Bronze 5109
Masking:	Upto 3mm thickness Coex PE film and above 3mm thickness adhesive Opal PE film

) Lexan 9030 P sheet can be supplied by prior arrangements in non - standard widths, lengths and color. Such arrangements may affect prices, terms and/or other conditions of sales and are subject to minimum order quantities.



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Fax. (31) (164) 293272

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Latest update SABIC 01/2008



Certificate No.
Chem : T-2329
Mech : T-2379



Sohm Analytical Services (I) Pvt Ltd.

CIN No.: U74900MH2015PTC266186
A-101/121,B-33/35, Amargian Industrial Estate,
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Email : thane.support@sohmanalytical.com
Web.: www.sohmanalytical.com

TEST CERTIFICATE**M/s Shiv Om Fastners**Shop No.9,Matruchaya Co Hsg Soc,Sector 8 A, Airoli Navi
Mumbai.

Ref. No.: SOF/20-21/05

Challan Dated: 28-09-2020

Description:Testing of Bolt sample

ULR-TC787920000014599F

Lab Ref. No.:U3257

Sample Received on: 29-09-2020

Report Completed on:06-10-2020

Stamped By:

Specification:IS 1367(PART-3) CLASS 8.8

Size M8 X 25
Description GI 8.8 BOLT

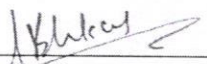
Hardness Test Test Method : IS 1586-1:2012

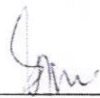
Eqpt. Sr. No:179-0211 Calibration Date: 10-09-2020 Due On: 09-09-2021

Description	Result	Required Value
Location	Surface	
Hardness In HBW	31,31,30	22-32
Remark	Satisfactory	

-----End of Report-----

FOR SOHM ANALYTICAL SERVICES (I) Pvt Ltd.


Authorised Signatory
Vishal Bhapkar
(Metallurgist)


Checked by

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Certificate No.
Chem : T-2329
Mech : T-2379



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TEST CERTIFICATE

M/s Shiv Om Fastners

Shop No.9,Matruchaya Co Hsg Soc,Sector 8 A, Airoli Navi
Mumbai.

Ref. No.: SOF/20-21/05

Challan Dated: 28-09-2020

Description:Testing of Nut sample

ULR-TC787920000014598F

Lab Ref. No.:U3258

Sample Received on: 29-09-2020

Report Completed on:06-10-2020

Stamped By:

Specification:--

Size M10
Description ZYP NUT

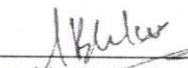
Hardness Test Test Method : IS 1501-1:2013

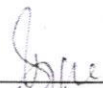
Eqpt. Sr. No:2011/144 Calibration Date: 10-09-2020 Due On: 09-09-2021

Description	Result
Location	Surface
Hardness In Hv-10	202,206,206

-----End of Report-----

FOR SOHM ANALYTICAL SERVICES (I) Pvt Ltd.


Authorized Signatory
Vishal Bhapkar
(Metallurgist)


Checked by

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Certificate No.
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Mech : T-2379



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Mumbai.

Ref. No.: SOF/20-21/05

Challan Dated: 28-09-2020

Description:Testing of Bolt sample

ULR-TC787920000014601F

Lab Ref. No.:U3254

Sample Received on: 29-09-2020

Report Completed on:06-10-2020

Stamped By:

Specification:IS 1367(PART-3) CLASS 8.8

Size M10 X 75
Description ZYP 8.8 BOLT HT

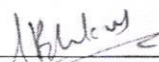
Hardness Test Test Method : IS 1586-1:2012

Eqpt. Sr. No:179-0211 Calibration Date: 10-09-2020 Due On: 09-09-2021

Description	Result	Required Value
Location	Surface	
Hardness In HRC	24,24,24	22-32
Remark	Satisfactory	

-----End of Report-----

FOR SOHM ANALYTICAL SERVICES (I) Pvt Ltd.


Authorized Signatory
Vishal Bhapkar
(Metallurgist)


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Certificate No.
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Mech : T-2379



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TEST CERTIFICATE**M/s Shiv Om Fastners**Shop No.9,Matruchaya Co Hsg Soc,Sector 8 A, Airoli Navi
Mumbai.

Ref. No.: SOF/20-21/05

Challan Dated: 28-09-2020

Description:Testing of Bolt sample

ULR-TC787920000014602F

Lab Ref. No.:U3253

Sample Received on: 29-09-2020

Report Completed on:06-10-2020

Stamped By:

Specification:IS 1367(PART-3) CLASS 8.8

Size M10 X 95
Description ZYP 8.8 BOLT HT

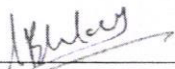
Hardness Test Test Method : IS 1586-1:2012

Eqpt. Sr. No:179-0211 Calibration Date: 10-09-2020 Due On: 09-09-2021

Description	Result	Required Value
Location	Surface	
Hardness In HRC	23,24,24	22-32
Remark	Satisfactory	

-----End of Report-----

FOR SOHM ANALYTICAL SERVICES (I) Pvt Ltd.


Authorised Signatory
Vishal Bhapkar
(Metallurgist)


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Certificate No.
Chem : T-2329
Mech : T-2379



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TEST CERTIFICATE

M/s Shiv Om Fastners

Shop No.9,Matruchaya Co Hsg Soc,Sector 8 A, Airoli Navi
Mumbai.

Ref. No.: SOF/20-21/05

Challan Dated: 28-09-2020

Description:Testing of Bolt sample

ULR-TC787920000014596F

Lab Ref. No.:U3252

Sample Received on: 29-09-2020

Report Completed on:06-10-2020

Stamped By:

Specification:--IS 1367(PART-3) CLASS 8.8

Size M12 X 75
Description ZYP 8.8 BOLT

CHEMICAL ANALYSIS BY SPECTRO (OES) Test Method : ASTM E 415:2017

Eqpt. Sr. No:18006596

Elements	Result	Required Value
% Carbon	0.25	0.25-0.55
% Phosphorus	0.014	0.035 max.
% Sulphur	0.005	0.035 max.

Remarks: THE ABOVE MATERIAL CONFORMS TO IS 1367(PART-3) CLASS 8.8 WITH RESPECT TO ELEMENT ANALYSED

Hardness Test Test Method : IS 1586-1:2012

Eqpt. Sr. No:179-0211 Calibration Date: 10-09-2020 Due On: 09-09-2021

Description	Result	Required Value
Location	Surface	
Hardness In HRC	29,29,30	22-32
Remark	Satisfactory	

-----End of Report-----

FOR SOHM ANALYTICAL SERVICES (I) Pvt Ltd.

Authorised Signatory

O.P. Singh
(HOD Chemical)

Authorised Signatory

Vishal Bhapkar
(Metallurgist)

Checked by

Notes:

- The above test reports relate only to sample submitted. • Sample shall not drawn by Sohmanalytical Services (I) Pvt Ltd.
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