Sub: Testing Report of Insulation

Date: 13-08-16

Insulation Type : EPS

Sample 1

Length (m)	Width (m)	Thickness (mm)	Qty/bag (Nos)	Weight (Kg)	Required Density Kg/m3	Actual Density	✓ ACC/REJ
1.52	1.22	50	4ft 40 Bag	45.10	120 ± 10	124.89	

Sample 2

Length (m)	Width (m)	Thickness (mm)	Qty/bag (Nos)	Weight (Kg)	Required Density Kg/m3	Actual Density	✓ ACC/REJ
1.52	1.22	50	4ft 40 Bag	44.50	120 ± 10	120.27	

Sample 3

Length (m)	Width (m)	Thickness (mm)	Qty/bag (Nos)	Weight (Kg)	Required Density Kg/m3	Actual Density	✓ ACC/REJ
1.52	1.22	50	4ft 40 Bag	47.80	120 ± 10	129.17	

Sample 4

Length (m)	Width (m)	Thickness (mm)	Qty/bag (Nos)	Weight (Kg)	Required Density Kg/m3	Actual Density	✓ ACC/REJ
1.52	1.22	40	5ft 30 Bags	47.60	120 ± 10	124.64	

Sample 5

Length (m)	Width (m)	Thickness (mm)	Qty/bag (Nos)	Weight (Kg)	Required Density Kg/m3	Actual Density	✓ ACC/REJ
1.52	1.22	40	5ft 20 Bag	48.90	120 ± 10	132.16	

Thermal Engg. Sign

TTPL Sign

VF (India) Ltd Sign

PRE APPLICATION CHECK OF INSULATION

PROJECT : Fatty Acid Bids project

VENDOR : Thermal Engg

PO :

Equipment/Piping :

Date : 13/8/16

FAB/Insulation/Test/Report :

Sample for Test :

Sr.No.	Insulation Maturial	Size (m)	Thickness (mm)	Density (Kg/M3)	Quantity		Test Certificate	
					No. of Bags	Sqr. Mtr	Recelvd TC No.	Visual Test
1	LRB	1524×1220×25	50	120 ± 10	40	296.70		
2	LRB	1524×1220×25	40	120 ± 10	30	278.16		
3								
4								
5								

Thermal Engg
Sign.

TTPL
Sign

VVF INDIA LTD
Sign

Sub: Testing Report of Insulation

Date: 13-08-16

Insulation Type :

Sample 1

Length (m)	Width (m)	Thickness (mm)	Qty/bag (Nos)	Weight (Kg)	Required Density Kg/m3	Actual Density	✓ ACC/REJ
1.52	1.22	75	3/1 70 Bag	51.30	120 ± 10	123.02	

Sample 2

Length (m)	Width (m)	Thickness (mm)	Qty/bag (Nos)	Weight (Kg)	Required Density Kg/m3	Actual Density	✓ ACC/REJ
1.52	1.22	75	3/1 70 Bag	50.50	120 ± 10	124.10	

Sample 3

Length (m)	Width (m)	Thickness (mm)	Qty/bag (Nos)	Weight (Kg)	Required Density Kg/m3	Actual Density	✓ ACC/REJ
1.52	1.22	75	3/1 70 Bag	48.70	120 ± 10	116.78	

Sample 4

Length (m)	Width (m)	Thickness (mm)	Qty/bag (Nos)	Weight (Kg)	Required Density Kg/m3	Actual Density	✓ ACC/REJ
1.52	1.22	75	3/1 70 Bag	49.75	120 ± 10	119.30	

Sample 5

Length (m)	Width (m)	Thickness (mm)	Qty/bag (Nos)	Weight (Kg)	Required Density Kg/m3	Actual Density	✓ ACC/REJ
1.52	1.22	75	3/1 70 Bag	54.15	120 ± 10	129.85	

Thermal Engg.
Sign

TTPL
Sign

VVF (India) Ltd
Sign

PRE APPLICATION CHECK OF INSULATION

PROJECT : Fatty Acid Bids project

VENDOR : Thermal Engg

PO :

Equipment/Piping :

Date :

FAB/Insulation/Test/Report :

Sample for Test :

Sr.No.	Insulation Material	Size (m)	Thickness (mm)	Density (Kg/M3)	Quantity		Test Certificate	
					No. of Bags	Sqr. Mtr	Receivd TC No.	Visual Test
1	LRB	1.52 X 1.52 X 8	75	120	70	389.42	ARFL/16-17/223 # 29/7/2016	Hi Tech Rock Fiber Pvt Ltd.
2								
3								
4								
5								

Thermal Engg
Sign.

TTPL
Sign

VF INDIA LTD.
Sign

Omkar Puf Insulation Pvt. Ltd.
D-575, TTC Industrial Area, MIDC, Near Guider, Garage, Rabale, Navi Mumbai - 400 701.
Office : 2764 1347 / 2764 1361 / 2761 1362 / 2761 1365
E-mail : omkarpufinsulation@yahoo.co.in / response@omkarpufinsulation.com
Website : www.omkarpufinsulation.com • C.I.N : U26999MH2005PTC152812

TEST CERTIFICATE

DATE : 28.07.2016

TEST CERTIFICATE NO. 238

NAME : M/S THERMAL ENGINEERING PROJECTS
C-412, Neo Corporate Plaza, 4th Floor,
Ram Chandra Lane Ext. Road,
Malad (W), Mumbai - 400 064.

PU PIPE SECTION

P.O. NO. : TEP/PO/025/16-17
INVOICE NO. : 857
TESTED ON : 27.07.2016

DATE : 22.07.2016
DATE : 28.07.2016

TEST	RESULTS	RANGE
DENSITY	38.7 Kg/M3	38 to 40 Kg/M3
COMPRESSION AT 10% DEF (KG/Cm2)	1.7 Kg/Cm2	1.25 to 2.2 Kg/Cm2
DIMENSSIONAL STABILITY AT 70 C (%)	0.55%	variation in dimension not more than 0.5% to 0.2%
CLOSED CELL CONTENT (%)	94.3	> 91.5
THERMAL CONDUCTIVITY (K) W/mk	0.02	0.019 to 0.023

THIS IS TO CERTIFY THAT THE MATERIAL IS AS PER ABOVE SPECIFICATION.

FOR OMKAR PUF INSULATION PVT LTD

OMKAR PUF INSULATION PVT. LTD. Rabale-701.

Omkar Puf Insulation Pvt. Ltd.
R-578, TTC Industrial Area, MIDC, Near Garden Garage, Rabale, Navi Mumbai - 400 701.
Office : 2764 1547 / 2764 1481 / 2769 1082 / 2769 3281
Email : omkarpufinsulation@yahoo.co.in / response@omkarpufinsulation.com
Website : www.omkarpufinsulation.com / CIN : U25209MH2005PTC152854

TEST CERTIFICATE

DATE : 02.07.2016

TEST CERTIFICATE NO. 182

NAME : M/S THERMAL ENGINEERING PROJECTS
C-411, Neo Corporate Plaza, 4th Floor,
Ramchandra Lane Ext. Road,
Malad (W), Mumbai - 400 064.

PU PIPE SECTION

P.O. NO. : TEP/PO/615/16-17 DATE : 10.06.2016
INVOICE NO. : 536 DATE : 20.06.2016
TESTED ON : 19.06.2016

TEST	RESULTS	RANGE
DENSITY	37.2 Kg/M³	34 to 38 Kg/M³
COMPRESSION AT 10% DEF (KG/Cm2)	1.58 Kg/cm²	1.5 to 3.4 Kg/Cm²
DIMENSSIONAL STABILITY AT 70 C (%)	0.5%	variation in dimension, not more than 0.5% to 0.7%
CLOSED CELL CONTENT (%)	93.7	> 91.5
THERMAL CONDUCTIVITY (K) W/mK	0.022	0.021 to 0.025

THIS IS TO CERTIFY THAT THE MATERIAL IS AS PER ABOVE SPECIFICATION.

FOR OMKAR PUF INSULATION PVT. LTD.

OMKAR PUF INSULATION PVT. LTD. Rabale-701

Omkar Puf Insulation Pvt. Ltd.

[illegible], MIDC, [illegible] Rabale, Navi Mumbai - 400 701.
Website : www.omkarpufinsulation.com ✱ CIN : [illegible]

Puf slab

TEST CERTIFICATE

DATE : 02.07.2016

TEST CERTIFICATE NO. 183

NAME : M/S THERMAL ENGINEERING PROJECTS
C-411, Neo Corporate Plaza, 4th Floor,
Ramchandra Lane Ext. Road,
Malad (W), Mumbai - 400 064.

PU SHEET

P.O. NO. : TEP/PO/022/16-17 DATE : 21.05.2016
INVOICE NO. : 480 DATE : 02.07.2016
TESTED ON : 30.06.2016

TEST	RESULTS	RANGE
DENSITY	36.7 Kg/M³	34 to 38 Kg/M³
COMPRESSION AT 10% DEF (KG/Cm2)	1.58 Kg/Cm²	1.5 to 2.4 Kg/Cm²
DIMENSIONAL STABILITY AT 70 C (%)	0.55%	variations in dimension, not more than 0.5% to 0.7%
CLOSED CELL CONTENT (%)	94.1	> 91.5
THERMAL CONDUCTIVITY (K) W/mK	0.022	0.021 to 0.025

THIS IS TO CERTIFY THAT THE MATERIAL IS AS PER ABOVE SPECIFICATION.

FOR OMKAR PUF INSULATION PVT. LTD.

OMKAR PUF INSULATION PVT. LTD. Rabale-701.