



EcoClad

ECOCLAD INSULATION JACKET

REDUCE HEAT LOSS BY UP TO 90%
SAVE ENERGY
MAXIMIZE COST EFFICIENCY

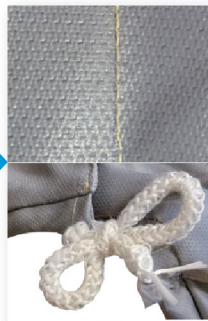
PRODUCT INTRODUCTION

EcoClad is the thermal insulation jacket brand of ECOFAB MANUFACTURING Co., Ltd, manufactured and custom-designed in Vietnam using 100% imported materials

EcoClad insulation jackets are specialized thermal covers designed to insulate industrial components such as valves, steam traps, Y-strainers, storage tanks, flanges, and other critical equipment in steam and thermal systems

The product helps minimize heat loss, save energy, and enhance workplace safety, while offering the added benefits of easy installation, reusability, and flexible adaptation to a wide range of equipment types.

STRUCTURE & TECHNICAL INFORMATION

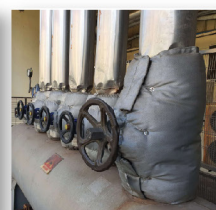
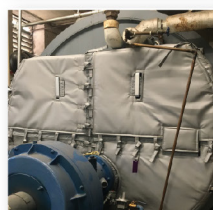


3-LAYER CONSTRUCTION:

- **Outer layer:** Water- and flame-resistant fiberglass fabric coated with silicone
- **Middle layer:** 80 kg/m³ rockwool insulation, 50mm thick
- **Inner layer:** Non-stick fiberglass fabric



- **Temperature resistance:** Up to 260°C, with higher temperatures available upon request
- **High-temperature resistant stitching** with reinforced, precise seams – ensuring durability under high heat and pressure conditions



Customizable Design and Manufacturing upon Request

BEFORE AND AFTER INSULATION



TECHNICAL BENEFITS

- **REDUCE HEAT LOSS BY UP TO 90%**

A DN80 globe valve without insulation loses ~919W, while with EcoClad, heat loss drops to only ~92W.

- **PROTECT EQUIPMENT & ENSURE OPERATIONAL SAFETY**

Lowers surface temperature to minimize the risk of burns for operators.

- **EASY TO INSTALL & MAINTAIN**

Quick-release design allows for easy removal, inspection, and maintenance.

- **CUSTOM-MADE FOR EACH SPECIFIC EQUIPMENT AS REQUIRED**

Suitable for various valve types (DN15–DN200) and components in steam and thermal systems.

COMMERCIAL BENEFITS

- **SIGNIFICANT ENERGY COST SAVINGS**

Save up to 1.414,56 USD/year (DN200 valve) and over 152,92 USD/year (DN15 valve).

- **OPTIMIZE OPERATING COSTS**

Minimize heat loss to reduce fuel and electricity consumption.

- **ONE-TIME INVESTMENT – LONG-TERM USE**

Reusable design helps lower maintenance and replacement costs.

- **FAST RETURN ON INVESTMENT (ROI)**

Payback within just a few months of actual operation.

ENVIRONMENTAL BENEFITS

- **LOWER FUEL CONSUMPTION – REDUCE CO₂ EMISSIONS**

Minimizing heat loss helps significantly cut greenhouse gas emissions.

- **IMPROVED WORKPLACE ENVIRONMENT**

Keeps factory temperatures more stable, enhancing working conditions for employees.

- **SUPPORT NET ZERO GOALS**

Reduces energy waste at every thermal point within the system.

Efficiency and Energy Savings (Insulation Jacket for Globe Valves – Steam Applications)

SIZE	AMBIENT TEMPERATURE	FLUID TEMPERATURE	ENERGY COST (USD/kWh)	OPERATING TIME (H)	COST SAVINGS (USD)	HEAT LOSS WITHOUT INSULATION (W)	HEAT LOSS WITH INSULATION (W)	EFFICIENCY (%)
15	30°C	185°C	0,088	8,400	161,78	260	41	84.2
20	30°C	185°C	0,088	8,400	198,72	315	46	85.4
25	30°C	185°C	0,088	8,400	247,48	386	51	86.8
32	30°C	185°C	0,088	8,400	306,58	473	58	87.7
40	30°C	185°C	0,088	8,400	345,01	530	63	88.1
50	30°C	185°C	0,088	8,400	429,97	653	71	89.1
65	30°C	185°C	0,088	8,400	508,27	770	82	89.4
80	30°C	185°C	0,088	8,400	610,96	919	92	90.0
100	30°C	185°C	0,088	8,400	780,96	1166	109	90.7
125	30°C	185°C	0,088	8,400	938,33	1397	127	90.9
150	30°C	185°C	0,088	8,400	1.084,62	1614	146	91.0
200	30°C	185°C	0,088	8,400	1.417,10	2101	183	91.3

(*) Note: The data presented in the “Efficiency and Savings” section is for reference only and was calculated using internal software based on real-world input data for insulated globe valves used in steam applications, collected from various sources in 2024. Collected data may contain inaccuracies and is subject to change depending on the customer’s location, operating conditions, and installation method.

APPLICATIONS

EcoClad insulation jackets are manufactured for all standard products and custom projects, aiming to minimize heat loss on pipeline-mounted equipment such as valves, strainers, check valves, steam traps, and more—installed on any pipeline with thermal transmission.

INDUSTRY-SPECIFIC APPLICATIONS

EcoClad is an ideal solution for industries that use steam, thermal systems, or hot water, including:

- Textile and garment manufacturing
- Food & beverage – breweries & distilleries
- Pharmaceuticals – chemicals – cosmetics
- Paper, packaging, and printing
- Seafood and agricultural processing
- Wood pellet plants, boiler systems, HVAC, wastewater treatment, fire protection systems (FPP), and more.



EQUIPMENT-SPECIFIC APPLICATIONS

EcoClad can be customized to fit the size and shape of a wide range of equipment, such as:

Insulation jacket for steam flow meters



Insulation jacket for condensate pump stations



Insulation jacket for plate heat exchangers (PHE)



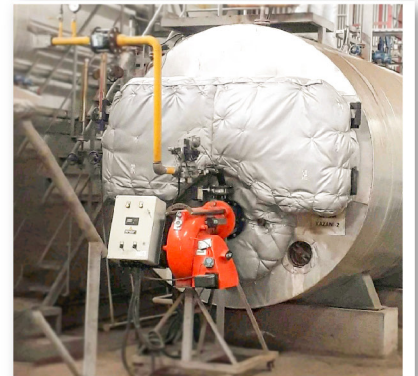
Insulation jacket for globe valves and blind flanges



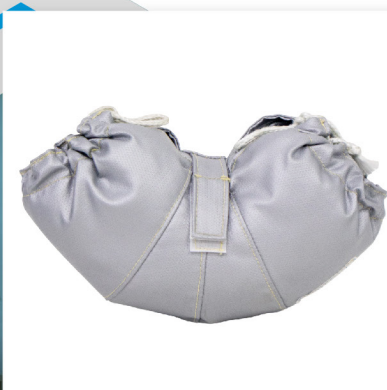
Insulation jacket for brew kettles



Jacket for boiler manholes/lids



Insulation jacket for pipe elbows



Insulation jacket for steam traps



Insulation jacket for control valves





7 REASONS TO CHOOSE ECOCLAD THERMAL INSULATION JACKETS

EcoClad is a trusted choice for factories and industrial systems thanks to its combination of international-quality materials, modern manufacturing, and full-service support.

1

International-Grade Materials

Made with 80 kg/m³ rockwool and fiberglass fabric coated with silicone – heat resistant up to 260°C.

2

Expert Technical Support

End-to-end service: from site survey and design to installation and maintenance.

3

Custom-Fitted Design

Precisely tailored to fit even complex equipment such as valves, steam traps, and pump stations...

4

Consistent Manufacturing – CNC Precision

Semi-automated production with strict quality control ensures consistency in every unit.

5

Large-Scale Supply & Export Capability

Ready to serve both domestic and international markets at competitive pricing.

6

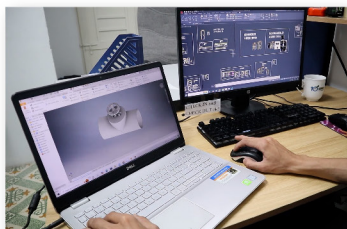
On-Site Delivery & Installation

Fast and professional service, minimizing downtime and deployment effort.

7

24-Month Technical Warranty

Guaranteed product quality with long-term support you can count on.



CERTIFICATION & TESTING – ECOCLAD'S COMMITMENT TO QUALITY



EcoClad thermal insulation jackets are not only officially registered under Trademark No. 454895 by the Vietnam Intellectual Property Office, but also quality-tested and certified by QUATEST 3 – one of Vietnam's leading and most reputable testing and inspection centers.

Test Results from QUATEST 3 Confirm

- EcoClad samples were exposed to 260°C for 12 continuous hours
 - **No ignition, no deformation, no flame spread observed.**
- Mass variation after testing was only 0.6%
 - **Demonstrates long-term heat resistance and high material stability.**
- All material layers (silicone-coated outer fabric, inner fiberglass fabric, fiberglass drawstrings)
 - **Maintained structural integrity and performance with no degradation after testing.**

Documentation Provided with the Product:

- Certificate of Quality & Factory Release for each production batch
- Internal test reports and inspection records by production lot
- Technical documentation and test certificates available for projects, bidding packages, or export requirements

QUATEST 3
TỔNG CỤC TIÊU CHUẨN ĐO LƯỜNG CHẤT LƯỢNG
TRUNG TÂM KỸ THUẬT TIÊU CHUẨN ĐO LƯỜNG CHẤT LƯỢNG 3
QUALITY ASSURANCE & TESTING CENTER 3

KT3-00260AXD2 PHẪU KẾT QUẢ THỬ NGHIỆM
TEST REPORT

7. Kết quả thử nghiệm:

Tên chỉ tiêu	Phương pháp thử	Kết quả thử nghiệm
7.1. Phô hống ngoài	ASTM E 1252 - 98	Vải bọc (mặt ngoài) Vải bọc (mặt trong) Dây rút Silicone Sơn thủy tinh Sơn thủy tinh
7.2. Khả năng chịu nhiệt	QTTNKT3-225 : 2018	Xem Biểu đồ số 00260AXD2
a. Mô tả		Mẫu chuẩn nóng Mẫu nóng ở 260 °C trong 12 giờ
• Trung thất và hình dạng mẫu		Xem hình 1 Xem hình 2
• Màu bị bắt lửa cháy		- Không
• Màu bị biến dạng do nhiệt		- Tối hơn so với ban đầu
• Màu sắc		- Xem mục b; c
• Thay đổi về khối lượng		881 876
b. Khối lượng		- 0,6
c. Thay đổi khối lượng		- 0,6

Hình 1 Hình 2

VALVELink
All your process control needs

EcoClad

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CERTIFICATE OF PRODUCT

PRODUCTS	CHECKED DEPARTMENT	CHECKED BY	DATE: 09 Dec 2014
HEAT INSULATION JACKETS	QUALITY INSPECTION DEPARTMENT		LOT NO: FKX-11048

PRODUCT INFORMATION

No	MANUFACTURER NAME	QUANTITY	MODEL	SPECIFICATIONS
1	ECOCLAD	2	ECOCLADGHS	Insulation Jacket EcoClad for Flanged Gate Valve Model: ECOCLADGHS EcoClad thermal insulation jacket for DN20 gate valve. Insulation material: Rockwool, density 80 kg/m³, thickness 80 mm. Outer layer: Silicone-coated fiberglass fabric - water-resistant and heat-resistant. Temperature resistance: Up to 260°C. Included documentation: Factory Certificate of Conformity.
2	ECOCLAD	28	ECOCLADGVS	Insulation Jacket for Steam Lift Check Valve Model: ECOCLADGVS EcoClad thermal insulation jacket for DN20 lift check valve (5-grooved). Insulation material: Rockwool, density 80 kg/m³, thickness 80 mm. Outer layer: Silicone-coated fiberglass fabric - water-resistant and heat-resistant. Temperature resistance: Up to 260°C. Included documentation: Factory Certificate of Conformity.

QUALITY CHECKED CONTENTS

Dimension:	Pass	Material	Pass	Label	Pass	Flexibility	Pass
	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

CONCLUSIONS

Approved ☒ Unapproved ☐

Note: This certification is provided only once.

VALVELink

EcoClad

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POST-INSULATION ENERGY SAVINGS REPORT

Customer: _____ Company: _____
Address: _____
Industry / Manufacturing Sector: FOOD SURVEY DATE: _____ REPORT SUBMISSION DATE: 31 May 2013

I. INSULATED EQUIPMENT & QUANTITY

Please refer to the attached file for detailed energy savings calculations following insulation implementation.

II. POST-INSULATION ENERGY SAVINGS

EVALUATION CRITERIA	VALUE	UNIT
Total Operating Time of the Equipment	8,400	Hours/Year
Total Energy Saved After One Year of Insulation	5,411,874.000	kWh/Year
LATENT HEAT PER KG OF STEAM (h)	3077.1-2138.3	KJ/KG
TOTAL STEAM SAVED PER YEAR	1,096.797	KG/YEAR
STEAM PURCHASE/PRODUCTION COST	26.79	USD/TON
TOTAL COST SAVINGS AFTER ONE YEAR	51,314.14	USD/YEAR
TOTAL INVESTMENT COST FOR INSULATION JACKETS	-----	USA
RETURN ON INVESTMENT (ROI) PERIOD	-----	MONTH
TOTAL REDUCTION IN CO-EMISSIONS	155	TONNES/YEAR
TOTAL COAL SAVED	106.583	TONNES
EQUIVALENT NUMBER OF TREES SAVED (CARBON OFFSET)	31,590	TREES

Report Prepared By: (Signature and Full Name) _____ Checked By: (Signature and Full Name) _____

CTSO VÕ MONTM

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