

# News Release

February 27, 2026  
Proterial, Ltd.

## **Proterial to Establish a Production Site for Amorphous Metal Material Metglas™ in India** **Addressing Growing Energy-Saving Needs**

**Proterial, Ltd. (hereinafter “Proterial”) will establish a production site for the amorphous metal material Metglas™ in India. Amid growing global demand for electric power, demand for Metglas™—which enables higher efficiency in transformers when used as a core material—is expected to increase significantly. To meet this demand, Proterial will address the world’s energy-saving needs by establishing a three-site structure encompassing the United States, Japan, and now India.**

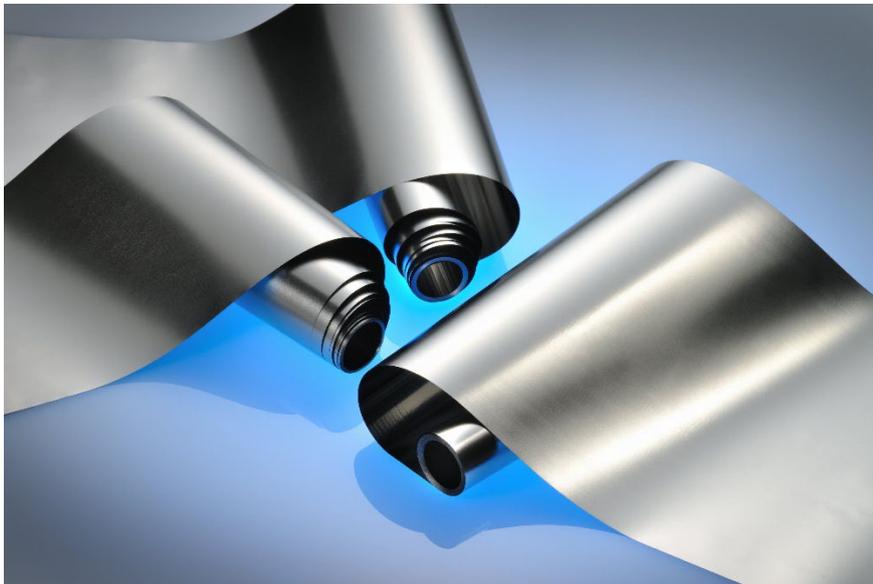


Photo: Amorphous metal material Metglas™

### **1. Background**

Proterial recognized the energy-saving potential of amorphous metal materials early on, and began research and development efforts in the late 1970s. In 2003, Hitachi Metals, Ltd. (now Proterial) acquired the amorphous metal materials division Metglas, Inc. (South Carolina, USA) from Honeywell International, Inc. in the United States, and formally launched its amorphous metal materials business. In 2007, mass production commenced at Yasugi Works (Yasugi, Shimane Prefecture, now Metglas Yasugi Works), establishing a two-site manufacturing and sales structure split between the US and Japan. In March 2020, now Proterial developed a new amorphous alloy, MaDC-A®, which contributes to further improving the efficiency of transformers, as part of the Metglas™ lineup. Proterial is now a leading company in the field of amorphous metal materials, handling everything from research and development to mass production.

### **Proterial, Ltd.**

Toyosu Prime Square, 5-6-36 Toyosu, Koto-ku, Tokyo 135-0061, Japan  
[www.proterial.com/e](http://www.proterial.com/e)

In recent years, electricity demand has increased significantly due to economic growth in emerging nations, rapid growth in the number of data centers, and the ongoing progress of electrification. This growth is expected to continue. India, in particular, is expected to experience rapid growth in electric power demand due to its population increase and ongoing economic development centered primarily on the IT industry and manufacturing.

When used as a core material in transformers, Metglas™ can reduce standby power usage by approximately one-third\* compared to using electromagnetic steel sheets as the core material, enabling higher transformer efficiency. Consequently, within India, alongside active investment in power infrastructure, a sharp increase in demand for Metglas™ is anticipated, as an amorphous metal material essential for achieving higher transformer efficiency.

Proterial currently produces Metglas™ for the Indian market at Metglas Yasugi Works and exports it. Anticipating future global growth in demand, including the Indian market, Proterial has decided to establish a new production site in India (Sri City, Tirupati District, Andhra Pradesh) to expand production capacity as part of the Proterial Group. The new base will primarily serve domestic demand in India.

With this new manufacturing site, Proterial will address the world's energy-saving needs by establishing a three-base structure encompassing the United States, Japan, and now India.

\* Based on Proterial's estimates using transformer standard JIS C 4304:2024.

## 2. Outline

### (1) Company overview

Trade name:	Metglas (India) Private Limited
Established:	June 30, 2025
Investors:	Proterial 74% Shirdi Sai Electricals Ltd 26%
Representative:	Kyou Komura
Business description:	Manufacture of Metglas™ amorphous metal material (amorphous alloy ribbon)
Number of employees:	200 (planned)
Factory Location:	Plot No. 450, Street: Thespia Drive, Sri City (P) Ltd., Tirupati District, PIN 517 646, Andhra Pradesh, India.

### (2) Schedule

Start of construction:	January 2026
Start of operation:	October 2026

### (3) Production capacity

Approx. 30,000 tons/year(at start year of operation)

Media Inquiries: Corporate Communications Dept.

[https://www.cntct.proterial.com/contact/publish/inquiry\\_eng?g=01&c=001-01](https://www.cntct.proterial.com/contact/publish/inquiry_eng?g=01&c=001-01)

Customer Inquiries: [https://www.cntct.proterial.com/contact/publish/inquiry\\_eng?g=01&c=010](https://www.cntct.proterial.com/contact/publish/inquiry_eng?g=01&c=010)

(Reference)

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## 1. Proterial's Metglas™ production sites

### Metglas, Inc.

- (1) Business description: Manufacture of amorphous metal material Metglas™ (amorphous alloy ribbon)
- (2) Established: April 1989
- (3) Location: South Carolina, USA
- (4) Capital: 10 million USD (wholly owned by Proterial America, Ltd.)

### Metglas Yasugi Works (Power Electronics Materials Business Unit, Proterial, Ltd.)

- (1) Products produced: amorphous metal material Metglas™ (amorphous alloy ribbon)  
Nano-sized crystal soft-magnetic material FINEMET®
- (2) Location: Yasugi, Shimane Prefecture, Japan
- (3) Established: April 2011\*  
\* Began production of Metglas™ as Yasugi Works in 2007; subsequently established as a separate factory on the same site.

## 2. Overview of Shirdi Sai Electricals Ltd

- (1) Business description: Manufacture of power distribution transformers
- (2) Established: 1994
- (3) Location: Telangana, India
- (4) Website: <https://ssel.in/>

## 3. Explanation of terms

### Amorphous metal material (amorphous alloy)

Conventional metals are crystalline structures with regularly aligned atoms. However, when rapidly cooled from a liquid state (high-temperature molten metal), the atoms do not have time to align, resulting in a solid with an irregular atomic arrangement that resembles the liquid state. This is amorphous metal. Compared to crystalline metals, amorphous metals are considered to be ideal soft magnetic materials. Amorphous metals with high iron content exhibit high magnetic flux density, are easily magnetized by small magnetic fields, and possess properties that make them well-suited for transformer cores. Aside from transformer cores, they are also used in magnetic components for noise suppression. Using amorphous metal materials in transformer cores can reduce standby power loss (no-load loss).

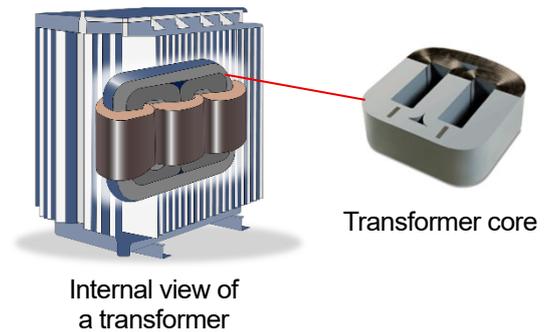
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## Transformer core

Transformers are used for voltage conversions. The voltage can be changed by varying the number of turns in the primary and secondary coils wound around the core inside the transformer. When alternating current flows through the primary coil, a magnetic flux is generated in the core. Electromagnetic induction then generates a voltage in the secondary coil, outputting alternating current. During this process, the core serves as the path for the magnetic flux, and must minimize the loss of transmitted energy.

When using an amorphous alloy as a transformer core, amorphous alloy ribbon is layered to form the core.



Metglas, MaDC-A, and FINEMET are registered trademarks or trademarks of Proterial, Ltd. or its group companies.

## ■About Proterial

# PROTERIAL

### The Thinking Behind our Company Name

“Proterial” combines “**pro-**” with the word “**material.**”

“Pro-” represents elements of our Values:

- **Unparalleled Professionalism**
- **Unbounded Progressiveness**
- **Unleashing Proactiveness**

“Material” refers to the high-performance materials that our original technologies produce and underpinned by the three pros. With our focus on solving customer issues and bringing new levels of value, we promise to contribute to the realization of a sustainable society through the products and services that embody our philosophy.

## ■Proterial, Ltd. — Company Overview

Established: April 1956

Head office: Toyosu Prime Square, 5-6-36 Toyosu, Koto-ku, Tokyo 135-0061, Japan

Capital : 310 million yen (as of March 31, 2025)

Representative : Sean M. Stack

Representative Director, Chairperson, President, & CEO

Sales revenue: 768.6 billion yen (Term ended March 2025)

History: 1910: Founded as Tobata Foundry Co.

1937: Merged with Hitachi, Ltd.

1956: Established separately as Hitachi Metals Industries, Ltd.

2023: Renamed from Hitachi Metals, Ltd. to Proterial, Ltd.

Proterial is a participant of the United Nations Global Compact and adheres to its principles-based approach to responsible business. In January 2026, Proterial received a Silver rating in the EcoVadis Sustainability Assessment for the second consecutive year.

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