YStech

Creating Solutions
Through Innovation
We create new value.

HEATPROOF Label Introduction Video
Office of The Prime Minister of Japan

YS Tech Co., Ltd.

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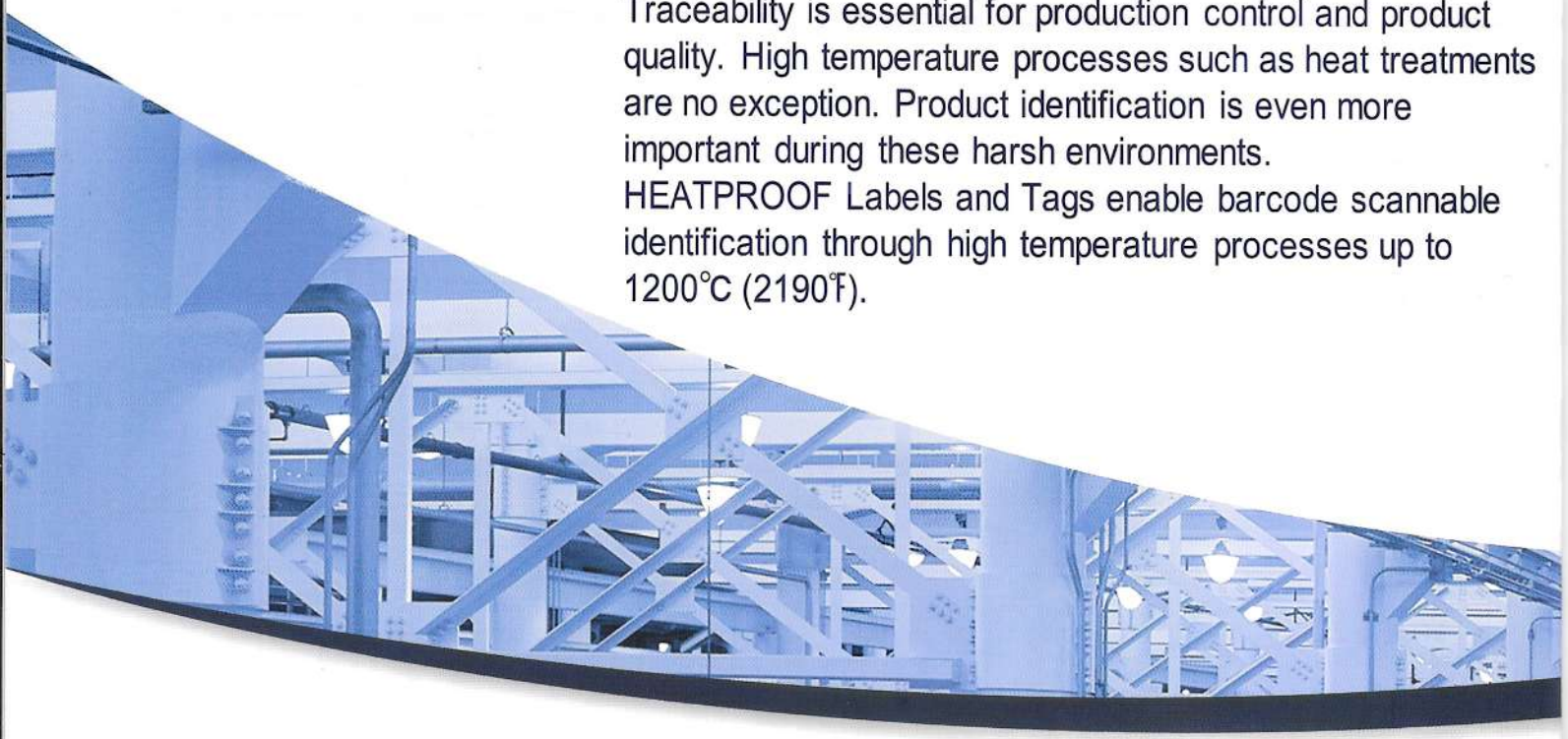
Heat Resistant Barcode System for Consistent Management of High Temperature Production Processes



Traceability is essential for production control and product quality. High temperature processes such as heat treatments are no exception. Product identification is even more important during these harsh environments.
HEATPROOF Labels and Tags enable barcode scannable identification through high temperature processes up to 1200℃ (2190℉).

Management of High Temperature Products and Processes

Integrated Heat Treatment Process Management

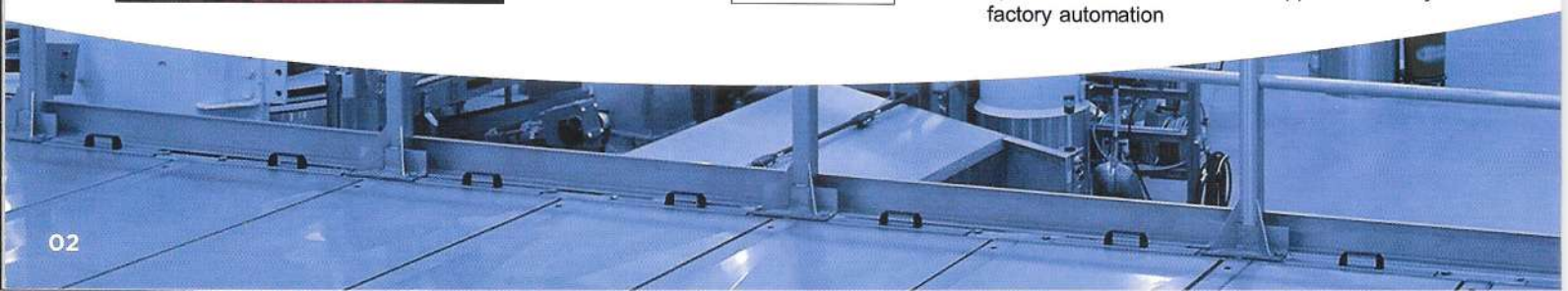
Heat resistant labels and tags can withstand temperatures up to 1200 ℃ in various atmospheres

Video

Direct Application onto High Temperature Objects

YS Tech's unique technology

Enables the management of high temperature objects up to 1000 ℃. Labels can be applied manually or with factory automation



Providing Solutions for:

Mixed Products

Dangerous Environments

Human Error

Labor and Production Costs

Production Efficiency

Video

Easily Print Required Information On-Site

Heat resistant labels and tags can easily be created in desired barcode format using a commercially available thermal transfer printer.

Video

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Heat Resistant Barcode Labels and Tags in Action

Steel & Aluminum

Barcode traceability is utilized on hot steel materials directly after casting at temperatures up to 1000℃ and for heat treatment processes with various atmospheres at a maximum temperature of 1200℃

[Steel]

- ▶Steel Plant
  Management of Hot Slabs and Blooms
- ▶Hot Rolling Mill
  - Combination Hot Coil Management and Shipping Label
  - Hot Steel Plate Management
  - Heat Treatment of Electromagnetic Steel Sheets, Titanium, and Stainless Steel
- ▶Wire Rod and Steel Bar Factory
  - Hot Billet Management
  - Wire and Rod Pickling and Heat Treatment Process Management
- ▶Forging Plant
  Management Between Heat Treatment and Forging Cycles

[Aluminum]

- ▶Smelting Factory
  Hot Sow and Ingot Management
- ▶Wire Rod and Bar Factory
- ▶Management of Heat Treatment Bobbin

[Steel and Aluminum]

Management of Various Testing Processes

Automotive

Barcodes can be applied directly to high temperature products immediately after casting and can be used in various heat treatment processes for homogenization

- ▶Management of Cast Aluminum Parts
- ▶Management of Aluminum and Steel Parts in Various Heat Treatments
  (Atmosphere, Vacuum, Nitride, Carburizing, Etc.)
- ▶Tooling Managment
- ▶Muffler Management
- ▶Ceramic Filter Management

Since their original introduction to the smelting industry in 2005, Heatproof products have been adopted by more than 500 companies in 30 countries around the world.
In 2014, YS Tech was chosen as one of the "Top 100 Global Niche Companies" by the Japanese Ministry of Economy, Trade, and Industry.
"HEATPROOF" Heat resistant labels and tags make it possible for companies to increase production efficiency and reduce labor costs, while improving the quality and safety of high temperature products and processes in various industries.

Construction & Heavy Equipment

Used in Solvent and Powder Coating as well as Hot Dip Galvanizing Processes

- Solvent and Powder Coating Process Management
  Combined Management for Pretreat ⇒ Coating ⇒ Heat Treatment ⇒ Shipping
- Hot Dip Galvanizing Process Management
  Combined Management for Pretreat ⇒ Coating ⇒ Shipping

Electronics

Solutions for Heat Treatment of Printed Circuit Boards and Capacitors

- High Temperature / Humidity Accelerated Aging Testing (Pressure Cooker Testing)
- Reflow Process Management
- Management of Ceramic Setter for Heat Treatment

Concrete

- Exterior Walls
- Concrete Piles

Manage Concrete Walls, Piles and more Through the Autoclave Process.

Ceramics

- Sanitary Ware
- Insulators

Individually Manage Sanitary Ware Products and Ceramic Setters in Heat Treatment Processes

Lab Equipment

- Lab Crucibles
- Glass Beakers

Management of Magnetic Crucibles and Glass Beakers for Chemical Analysis

Our Products

Heat Activated Adhesive Labels

Direct Application up to 1000℃

Labels can be applied directly onto high-temperature steel or non-ferrous metals after casting for individual product management

Applications:

Adhesion Process

With our specialty adhesives, labels can be applied directly to surface temperatures up to 1000 ℃

Heatproof Technology

At ambient temperatures labels are not tacky	Adhesive activates upon contact with high temperatures	Adhesive will soften and conform to the surface material and begin to form a bond	Heat will cause the adhesive to harden and further bond with the surface material	Adhesion is maintained even as material cools

*Specialty applicator tool is required to apply labels to hot surfaces

Heat Activated Label Types

Product Lineup	HP-600 Series	HP-700T	HP-900 Series
Maximum Temperature	600℃	800℃	1000℃
Application Range	250~600℃	450~800℃	450~1000℃
Core Material	Aluminum	Brass	Nickel

Heatproof Label and Tag products make it possible to easily utilize barcode scannable information in high temperature applications. Our wide range of products can be applied directly to hot surfaces, applied at ambient temperatures for heat treatments, offer excellent outdoor weather resistance, chemical resistance, and abrasion resistance. Let us know the details of your application and we will recommend a material to meet your needs.

Heatproof Adhesive Labels

Label Application Temperature Range: Ambient ~
Maximum Heat Resistance: 1200℃

Heat-resistant labels suitable for processes in various industries (steel, non-ferrous metals, ceramics, electronic parts, automobile parts, tooling management)

Applications:

Adhesive Label Types

Product Lineup	HP-NTK Series	HP-120 Series	HP-150 Series	HP-350 Series	HP-800 Series	HP-CBR Series
Max Temperature	Flame Resistant	220℃	350℃	600℃	800℃	1200℃
Application Range	Ambient ~ 50℃	Ambient ~ 200℃	Ambient ~ 300℃	Ambient ~ 400℃	Ambient ~ 400℃	Ambient ~ 50℃
Core Material	Aluminum	Aluminum	Aluminum	Aluminum	Nickel	——

Heatproof Tags

Tag Application Temperature Range: Ambient ~ 1200 ℃
Maximum Heat Resistance: 1200℃

Heat resistant tags can be attached directly to ultra-high temperature steel and non-ferrous products after casting and are compatible with various heat-intensive processes across a wide variety of industries. Application methods can be proposed according to customer requirements.

Applications:

Tag Product Types

Product Lineup	HP-ST30 Series	HP-T40 Series	HP-G66 Series	HP-L80 Series	HP-L90 Series	HP-CBR Tag Series
Max Temperature	250℃	400℃	550℃	1000℃	1200℃	1200℃
Core Material	PP, PET	PI	SUS	SUS	SUS	SUS

Company Profile

Company Name	YS Tech Co., Ltd	
Established	April 2005	
Capital	50 Million Yen	
Board Members	Chairman of the Board	Kojiro Terasaki (President of Yushi Seihin co., Ltd.)
	President	Kenji Takehisa
	Director	Seiji Kitano
	Director	Taichi Okayama (Sales Manager)
	Auditor	Toshiaki Ueda

Locations

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https://ys-tech.jp/

HEATPROOF Website (Label and Tag Products)
https://www.heatprooflabel.com