



precision

aperam  
made for life



Resistance  
& Thermocouple Alloys

Aperam Alloys Rescal





## Expert in Specialty Alloys

As a European market leader in re-drawing and precision flattening processes, **Aperam Alloys Rescal** is ranked among the top companies for highest quality performance alloys in various shapes: drawn wire, ribbon and precision strip.

## Internationally recognized

Established in 1983, **Aperam Alloys Rescal** is present throughout the world. With sales offices and a network of distributors in more than 60 countries, over three quarters of production is exported across 5 continents.

# performance

## Aperam Alloys Rescal,

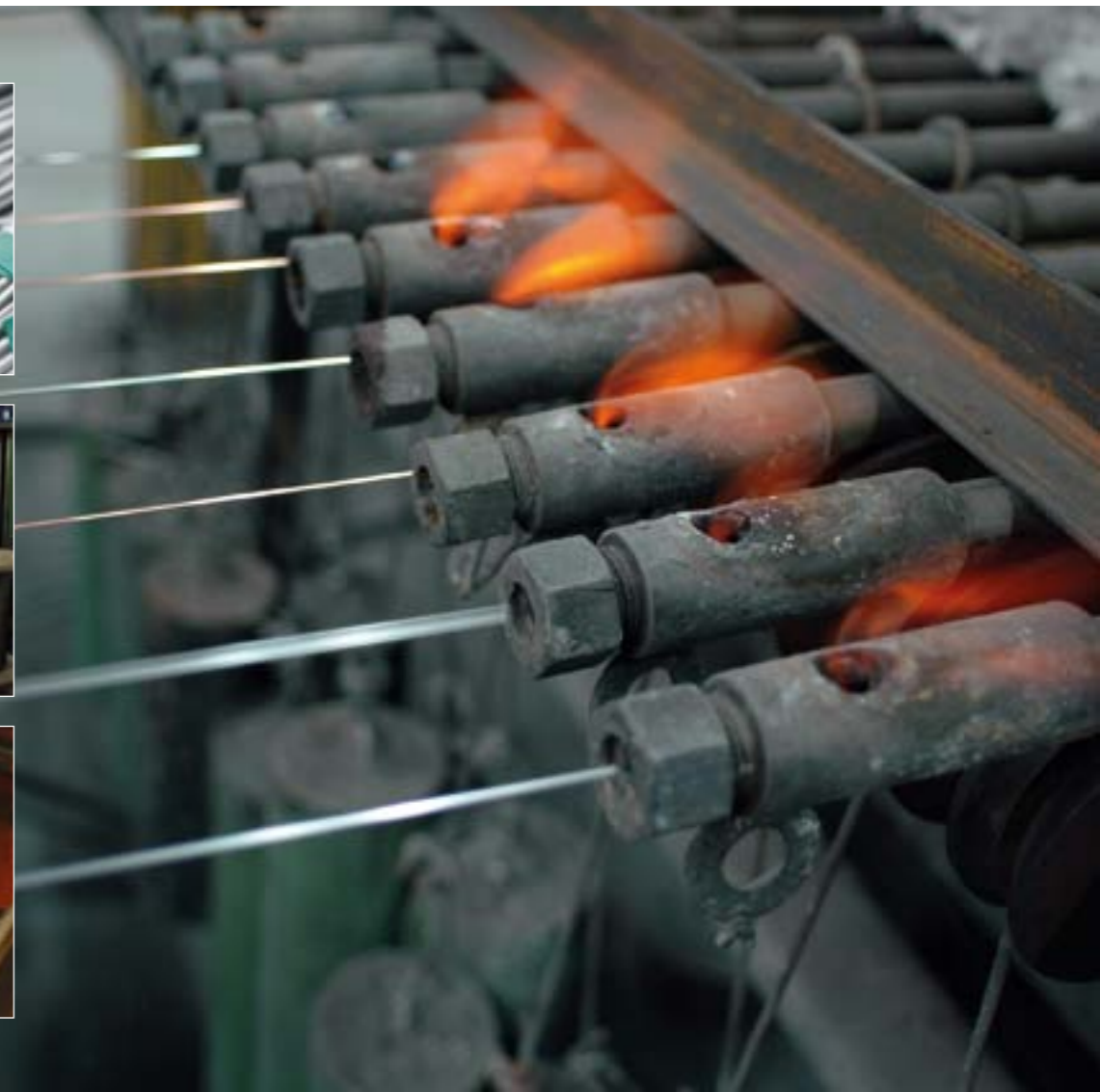
part of Aperam Group...

Aperam is a global player in flat stainless steel in Europe and Brazil. The Company is also a leading producer of high value-added specialty products, including electrical steel and high nickel alloys.

... and a subsidiary of  
**Aperam Alloys Imphy**

For more than 100 years, Aperam Alloys Imphy has specialized in the design and production of nickel and cobalt alloys in all forms, as well as certain specific stainless steels. The Imphy high performance materials exceed the most demanding requirements of high technology applications.

Through Imphy, **Aperam Alloys Rescal** benefits from an Integrated Process from melting shop to drawn and flattened wire.





## Product Forms

Most alloys are processed from highest quality wire rod with Ø 5,50 to 16,00 mm coming from Aperam Alloys Imphy.



### Wire:

From Ø 0.05 to 16 mm



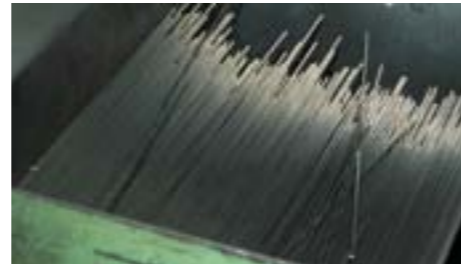
### Strip:

From 8.00 to 200 mm width and 0.05 to 3.00 mm thickness



### Ribbon:

From 0.50 mm width and 0.05/0.20 mm thickness to 8.00 mm width and 0.15/1.00 mm thickness



### Bar:

Straightened Drawn Wire from Ø 0.60 to 16 mm  
Length of bars up to 4 meters long.

## Alloys delivered

Resistance Alloys			
NiCr	FeCrAl	CuNi	Others
Resistohm® 80	Resistohm® 125	CuNi 44	Nickel 200
Resistohm® 70	Resistohm® 135	CuNi 23 Mn	Nickel 201
Resistohm® 60	Resistohm® 140	CuNi 10	Nickel 212
Resistohm® 40	Resistohm® 145	CuNi 6	Invar®, FeNi 70
Resistohm® 30	Resistohm® Y	CuNi 2	N42, N52, Supra 50
Resistohm® 20	Resistohm® E	Phy 400	Clad 40
	Resistohm® PRM		Super Alloys

Thermocouple Alloys
Thermocouple, Extension & Compensation
Type K
Type E
Type J
Type N
Type T
Type S
Thermopile

For alloys outside the above mentioned, please contact us

## Delivery forms

Spools			
Type	Approx. Weight	Type	Approx. Weight
DIN 63	0,3 kg	DIN 160	6 kg
DIN 80	0,8 kg	DIN 200	12 kg
DIN 100	1,5 kg	DIN 250	20 kg
DIN 125	3,0 kg	DIN 355	50 kg
DIN 125 RE	4,0 kg	DIN 500	100 kg

Drums	
Type	Approx. Weight
F 150	30 kg
F 250	60 kg
F 500	80 kg
F 800	180 kg

Coils		
I.D.	O.D.	Approx. Weight
400	500	40 kg
450	550	40 kg
550	650	40 kg



# resistance

## Applications...

- > Electric Heaters for Home Appliances
- > Industrial Furnaces and Heating Systems
- > Temperature Sensors
- > Mineral Insulated Cables

## ... For a wide range of Industries

- > Aerospace
- > Automotive
- > Oil and Gas
- > Domestic Appliances
- > Various Industries



**Aperam Alloys Rescal has built its reputation on its ability to adapt its products to customer specifications, on performance longevity and service reliability.**

## Product Quality

Quality of the product is guaranteed through end to end production controls such as life tests, grain size, and metallurgical characteristics measurements.

ISO Quality System is the foundation for continuous process improvement, aiding in achieving the highest product quality.

Thermocouple and Extension Alloys delivered by Aperam Alloys Rescal are recognized to be stable material with no aging and to meet special limits and offset requirements.



Find our Updated Quality Certifications at:  
[www.aperam.com/alloys-rescal](http://www.aperam.com/alloys-rescal)



## Customer Service

Sales department is organized by geographical area to provide the most effective and responsive service.

### Support for a wide range of customers

Machinery is adapted according to the market requirements.

Aperam Alloys Rescal is able to produce small quantities as well as substantial volumes in order to meet customers' demand.

### Stock Management & Packaging

Standard alloys in standard dimensions are held in stock for immediate shipping.

Packaging meets international standard requirements and can be adapted to specific demands.

agility



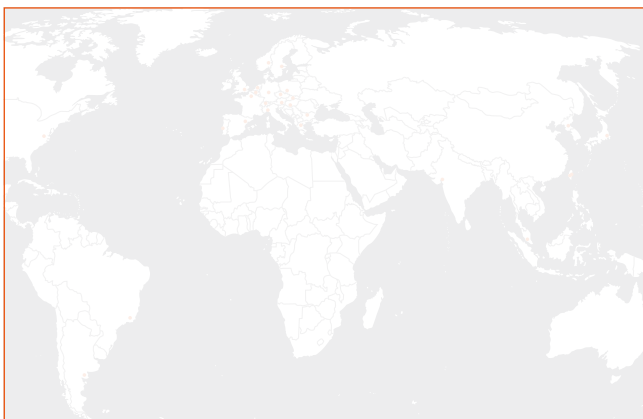




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