



# CRT ZPS

PRECISION ALLOYS



## NICKEL ALLOYS

• WIRE • BAR • ROD • STRIP

Electrical Resistance / Heating alloys

Welding Consumable

Pure Wrought Nickel

Heat Resistance

High-temperature

Corrosion-resistant alloys

Thermal Spray

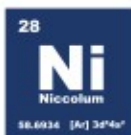
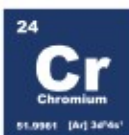
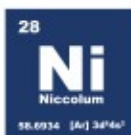
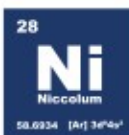
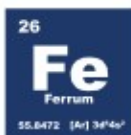
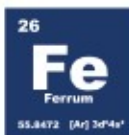
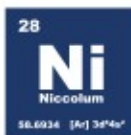
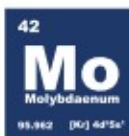
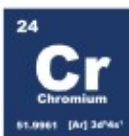
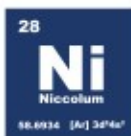
Precision alloys



2018



## NICKEL ALLOYS





Vladimir Plant of Precision Alloys is a well-established company, dealing with high-nickel alloys. As a customer oriented company we put the client's satisfaction at the first place of all our activities. We bring the best service and rewarding experience for more than thousand satisfied customers all over the world. Our main principle is a constant development for meeting the market needs in quality products with high availability.

## We can offer

- Fully integrated operating model starting from melting of raw material to rolling and drawing
- Wide range of semi-finished and finished nickel alloy and specialty steel products manufactured to customer specifications
- Most of materials are physically available in our warehouse for immediate dispatch
- Even the more exotic materials can be sourced quickly in low volume allowing you to keep on-time with your own production schedule
- Strict management rules from selecting raw material, operating equipment, controlling process and so on.
- Rigorous strategy execution focused on operational efficiency/unparalleled customer service

## Integrated production

- Melting, Remelting (VIM, ESR, VAR)
- Hot rolling
- Cold rolling
- Cold drawing
- Heat treating

## Global distrubution

VZPS has successfully grown its export business throughout Europe, Asia, and the Middle East, appointing strategic partners in various countries. We supply to more than 30 countries worldwide these days. High level of sales and technical support will assist you in the selection of materials for your applications.

## Customizing

Customized labelling, packing and certification are available.

## Quality

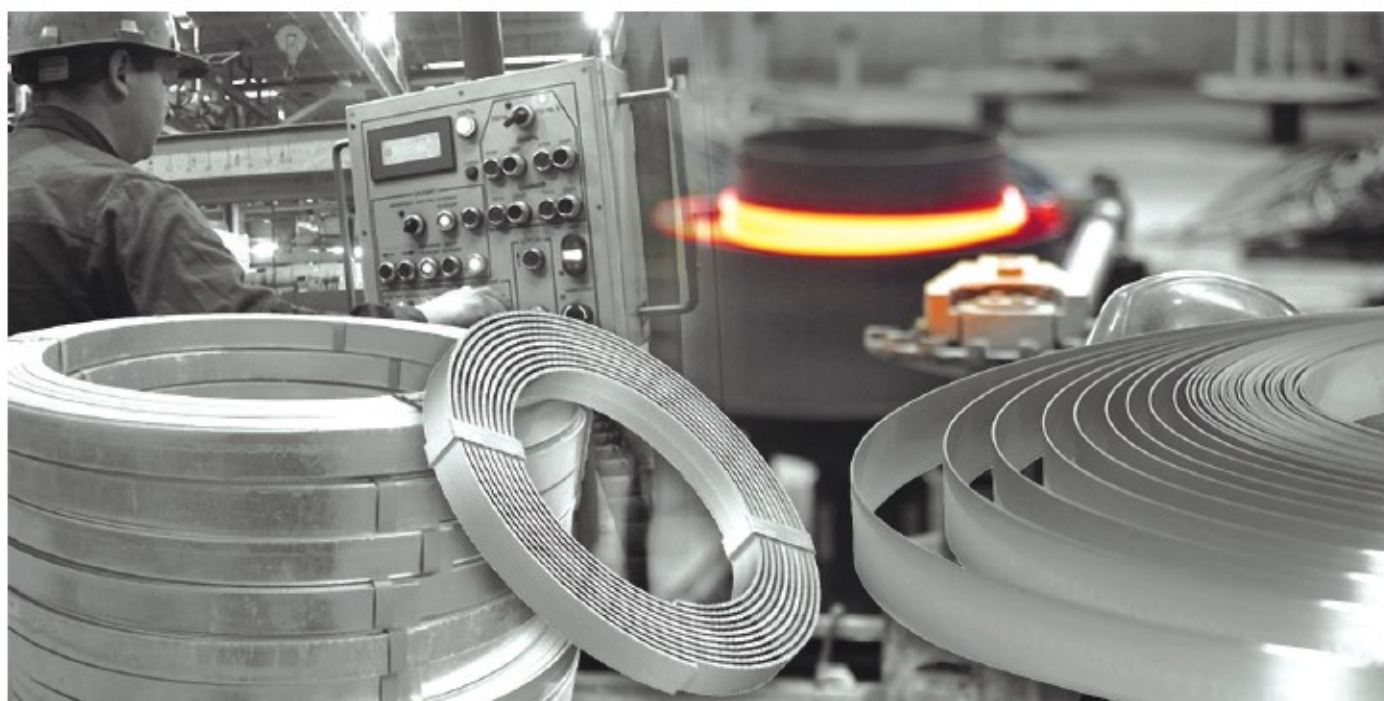
Our products fully comply with the applicable international standards as well as adapted to customers' own specification.

VZPS quality department, with the latest technology for chemical analysis, metallography and mechanical testing equipment, carries out product tests in accordance with customers' requests.

Testing laboratory accredited according to ISO/IEC 17025.

VZPS quality management system is certified as following:

- EN ISO 9001:2008 TUV certificate for distribution of welding consumables and metallurgic products.
- TÜV for Factory Production Control system. This meets all control conditions required by UNI EN 13479 "General rule of product for filler metals and fluxes for fusion welding of metallic materials.



# PRODUCTION

## Alloys

### Electrical Resistance / Heating alloys

DIN 17470 / 17471 / ASTM B344			
Alloy		Wr.№	UNS
Rezistan 80	NiCr8020	2.4869	N06003
Rezistan 70	NiCr7030	2.4658	N06008
Rezistan 60	NiCr6015	2.4867	N06004
Rezistan 30	NiCr3020	1.4860	

**REZISTAN**

### Welding Consumables (GTAW, GMAW, SMAW) and Thermal Spray

AWS A5.14 / AWS A5.15 / DIN EN ISO 18274			
Alloy		Wr.№	UNS
WeldMe 36	36NiFe	1.3912	K93603
WeldMe 55	ENiFe-CI	2.4560	W82002
WeldMe 60	NiCr6015	2.4867	N06004
WeldMe 61	ERNi-1	2.4155	N02061
WeldMe 80	ERNiCr-6	2.4639	N06076
WeldMe 82	ERNiCr-3	2.4806	N06082
WeldMe 99	ENi-CI	2.4065	W82001
WeldMe 601	ERNiFeCr-11	2.4851	N06601
WeldMe 625	ERNiCrMo-3	2.4856	N06625
WeldMe 718	ERNiFeCr-2	2.4668	N07718
WeldMe 22	ERNiCrMo-10	2.4602	N06022
WeldMe 276	ERNiCrMo-4	2.4819	N10276
WeldMe 59	ERNiCrMo-13	2.4605	N06059
WeldMe 418	ERNiFeCu-7	2.4377	N04060

**WELDME**

### Heat resistance / High-temperature/ Corrosion-resistant alloys

DIN 17742 / 17752 / 17753 / ASTM			
Alloy		Wr.№	UNS
Pyrostan 330		1.4886	N08330
Pyrostan 330Nb		1.4887	
Pyrostan 8020Nb			
Pyrostan 600		2.4816	N06600
Pyrostan 601		2.4851	N06601
Pyrostan 602CA		2.4633	N06025
Pyrostan 625		2.4856	N06625
Pyrostan 718		2.4668	N07718
Pyrostan 22		2.4602	N06022
Pyrostan 59		2.4605	N06059
Pyrostan 75		2.4951/2.4630	N06075
Pyrostan 82		2.4806	N06082
Pyrostan C276		2.4819	N10276
Pyrostan X-750		2.4669	N07750
Pyrostan 400		2.4360	N04400
Pyrostan K-500		2.4375	N05500

**PYROSTAN**

### Pure Wrought Nickel

DIN 17740/17753/ASTM B160			
Alloy		Wr.№	UNS
Alloy 200 (Ni 99.2)		2.4066/2.4068	N02200
Alloy 201 (Ni 99.6)		2.4060/2.4061	N02201

**CORETERM**

### Precision alloys

DIN 17745 / ASTM F30 / ASTM F-15			
Alloy		Wr.№	UNS
36NiFe		1.3912	K93603
42NiFe		1.3927	K94100
48NiFe		1.3922	K94800
29Ni53Fe17Co		1.3981	K94610



## Product form and supply condition

### Wire

Diameter from **0.2** to **12.0** mm

Solid wire

Stranded wire

- Calibrated
- Hard drawn
- Soft annealed
- Bright or Oxidized annealed

### Bar

Diameter from **2.0** to **60.0** mm

Length up to **6000** mm

Tolerances h9-h12 ISO 286-2

- Hot-rolled
- Cold-drawn
- Peeled and turned
- Polished

### Strip

Thickness from **2.5** to **5.0** mm

Width up to **100.0** mm

- Hot rolled
- Cold rolled

We produce nickel-based alloys in accordance with international standards (DIN, EN, ISO, ASTM) and customers' specifications. If you do not find the exact alloy please, contact us and we will be glad to help you.

To learn more about each of the types of products you can refer to relevant pages in our online catalog <http://en.vlzps.ru>



# PACKAGING OF PRODUCTS

## Wire on spools IEC 264-2 (DIN 46399)

Diameter, mm	Spool type	*Standard Weight, kg	Packaging
0.2 – 1.0	K 100	1	6 pcs. in cartoon box
0.2 – 1.2	K 125	3	6 pcs. in cartoon box
0.2 – 1.6	K 160	5	6 pcs. in cartoon box
0.2 – 1.8	K 200	10	2 pcs. in cartoon box
0.2 – 1.8	K 250	20	1 pcs. in cartoon box
0.8 – 2.0	K 355	40-45	1 pcs. in cartoon box

\* Spools can be supplied in bigger weight

## Welding Wire on spools ISO 544

Diameter, mm	Spool type	Standard Weight, kg	Packaging
0.6 – 2.0	B S 300 / K 300 basket spool (DIN 8559)	15-18	1 pcs. in cartoon box
1.0 – 2.5	K 415 basket spool (DIN EN 544)	25-30	1 pcs. in cartoon box
0.6 – 1.6	S 200 plastic spool (DIN 8559)	5	1 pcs. in cartoon box
0.6 – 2.0	S 300 plastic spool (DIN 8559)	15	1 pcs. in cartoon box

## Wire in coils

Diameter, mm	Coil diameter, mm		**Standard Weight, kg
	Inner size	Outer size	
1.0 – 4.9	400	600	20 – 300
5.0 – 9.0	650	1000	30 – 300
9.1 – 12.0	650	1000	30 – 50

\*\* Other weight available upon request. Maximum weight of coil is 400 kg.

## Wire in drum

Diameter, mm	Coil diameter, mm		Standard Weight, kg
	Inner size	Outer size	
1.0 – 2.5	400	600	50 – 150

## Wire on Carrier/Kronenstock/Spider

Diameter, mm	Coil diameter, mm		Standard Weight, kg
	Inner size	Outer size	
1.0 – 1.9	360	600	100
2.0 – 5.0	480	820	300
5.1 – 8.0	480	820	400

## Strip coils

Thickness, mm	Width, mm	Coil Diameter, mm	Standard Weight, kg
2.0 – 4.0	20 – 100	380 – 630	8.0 – 65.0

## Round bars

Diameter, mm	Length, mm	***Packaging
2.0 – 8.0	300 – 4500	Wooden box
5.0 – 60.0	500 – 4500	Bundles

\*\*\* Special packaging available upon request

You can order required products through the online form on our web-site <http://en.vlzps.ru/production-order/> or send us an e-mail [export@vlzps.ru](mailto:export@vlzps.ru)





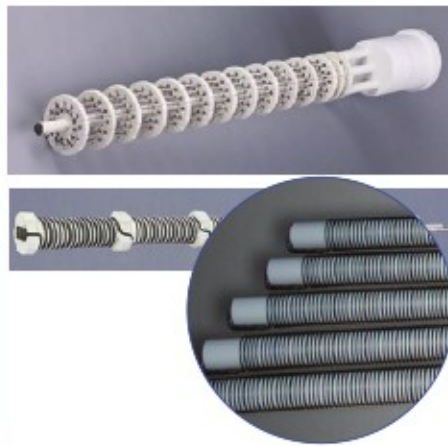
# PRODUCT APPLICATION

VZPS's products are widely used in many industries, for instance, in the manufacturing process of the following industrial fields:

## INDUSTRIAL FURNACES



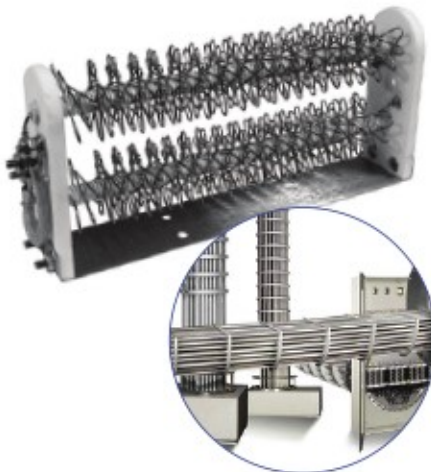
## CARTRIDGE HEATERS



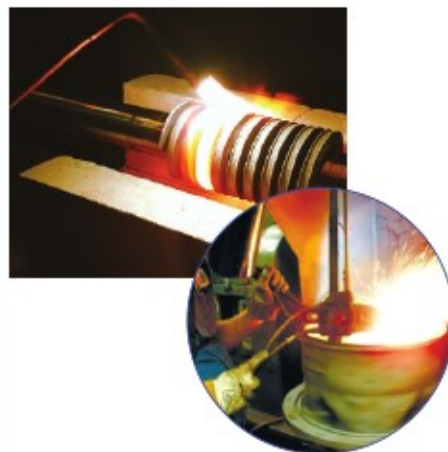
## TUBULAR HEATING ELEMENTS



## HEATING EQUIPMENT/HEAT EMITTERS



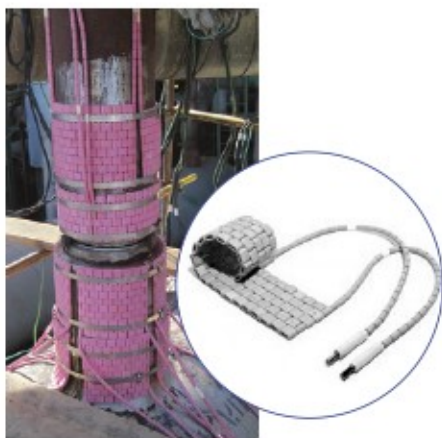
## FLAME SPRAY TECHNOLOGIES



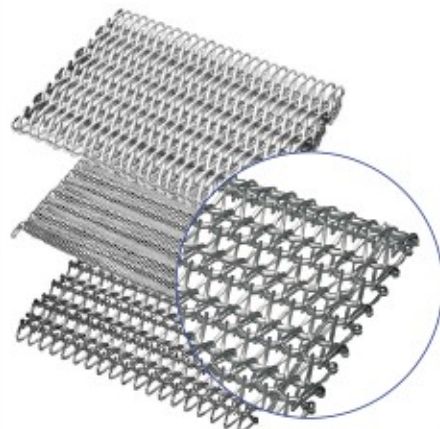
## HIGH-NICKEL WELDING CONSUMABLES



## HEATING MATS



## HEAT RESISTANT WIRE MESH



## HEAT RESISTANT BASKETS





## PRECISION ALLOYS



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# [REZISTAN]

 **WELDME**

# PYROSTAN



0035-CPR-C629  
EN 13479:2004



Management  
System  
ISO 9001:2008

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