

## ALLOYS WITH SPECIFIC PHYSICAL PROPERTIES

Application	n Segme	nts										
Engine	eering											
Available F	Product \	/ariants										
Long Pi	roducts											
Product Do	escription	า										
measuring rul controllers. O bushings, ele The minimum	lers, scales) ther applica ctronic tube coefficient t of expansi	-42% nickel alloy , temperature me tions include cor s, glass/ceramic of thermal expan on increases sha	easuring devices e material for co to metal applica sion of BÖHLEF	s and temperat opper sheath wi ctions. R P804 is in the	ure-dependent ires, automotive e range of -30 t	controls, thermore and industrial lates 275°C. Above	stats, thermol amps, transfor the break poir	oimetals and e mer/capacitor at at just over 3	expansion 800°C,			
Process M	1elting											
Airmo	elted											
Application	ns											
> Electronic industry		> Mechanical Engineering										
Technical (	data											
Material designation			Standards	S								
Ni 42		Market grade	_	F30	ASTM							
K94100		UNS										
Chemical	composit	ion (wt. %)										
С	Si	Mn	Р	S	Cr	Ni	Со	Al	Fe			
max. 0.05	max. 0.30	max. 0.80	max. 0.025	max. 0.025	max. 0.25	41.0 to 43.0	max. INF	max. 0.10	REM			

Refers to ASTM F30 - UNS K94100





## **Delivery condition**

Annealed	
Tensile Strength (MPa)	440 to 640

## Round Bars and Wire Rod (if any)

Diameter*							
mm							
ROLLED							
5.00	-	13.50					
15.00	-	125.00					
FORGED							
125.10	-	500.00					

<sup>\*</sup> Diameter 5.00 - 13.50 mm available as Wire Rod.

Diameter 15.00 - 125 mm available as round bars.

More information regarding MOQ, lengths and tolerances upon request.

If other available product variants are listed in addition to long products, please note that these may differ in terms of melting process, technical data, delivery and surface condition as well as available product dimensions. For mandatory technical specifications, other requirements and dimensions, please contact our regional voestalpine BÖHLER sales companies. The data contained in this brochure is merely for general information and therefore shall not be binding on the company. We may be bound only through a contract explicitly stipulating such data as binding. Measurement data are laboratory values and can deviate from practical analyses. The manufacture of our products does not involve the use of substances detrimental to health or to the ozone layer.

## voestalpine BÖHLER Edelstahl GmbH & Co KG

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