

## **ENGINEERING STEELS - HEAT** TREATABLE AND NITRIDING **STEELS**

Application	Segments							
Automo	otive							
Available P	roduct Varia	ınts						
Long Pro	oducts							
Product De	scription							
components wi	th a nominal cro	quality, low-alloy oss-sectional thio ons in the quenc	ckness of up to	3.5 inches (89				
		parts that require he most stringer			th a minimum ha	ardness of 53 HF	RC and can be ι	used to produce
compared to the and transmission process, using	e standard 300 on shafts, prima vacuum inducti	ntent of BÖHLEF M grade and is urily in racing and on melting (VIM) es the fatigue pr	used for mecha d automotive er ) and subseque	nically highly st ngineering, but ent vacuum arc	ressed parts wiṫ also in mechanio remelting (VAR)	h high fatigue lo cal engineering.	ads, such as tor The dual vacuu	sion bars, gears, m melting
Process Me	elting							
VIM + V	/AR							
Applications	S							
> Automotive		> Motorsport in	dustry	>	Civil and mecha	anical engineerir	ng	
Technical d	ata							
Material desig	nation		Standards					
	K5401	5 UNS		6499 A	MS			
Chemical c	omposition (	(wt. %)						
С	Si	Mn	P	s	Cr	Мо	Ni	v
0.37 to 0.44	2.60 to 2.85	0.50 to 0.95	max. 0.015	max. 0.010	0.65 to 1.05	0.30 to 0.55	1.50 to 2.10	0.10 to 0.30
Refers to AMS	6499							





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		4.5 4.5
Deliver	/ con	dition
DCIIVCI	y COLL	uition

Normalized, Tempered					
Hardness (HB)	max. 311				
Round Bars and Wire Rod (if any)					
		Diameter			

mm					
ROLLED					
12.50	- 140.00				
FORGED					
140.01	- 170.00				

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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