


Buderus Edelstahl GmbH Buderusstraße 25, 35576 Wetzlar	<b>Buderus   Edelstahl</b>		
<b>NJSB TAG NO. 502</b>	Inspection certificate EN 10204-3.1		Stempel des Abnahmebeauftragten Inspectors Stamp
	Certificate No. 298289/1		
	Our Reference No. Pos. 511255 4		

Heat No.  
18638

Melting process	Electric steel
Casting method	Ingot casting
Material Grade	52100
Steel gr.no.	3505
Production order	4290185
Shipment no./Date	6021770557/05.04.2018
Invoice No./Date	6035011718/19.04.2018

Material description : Hot rolled Strip skin passed in bars

Finish : 4,953 x 400,000 mm (.195 x 15.75")  
thickness tolerance +0,060 /-0,060 mm (+/- .0024")  
width tolerance +4,200 /-0,000 mm (+ .165/-0")  
length 1.219,200 mm (48") +12,000 / -0,000 mm (+ .47/-0")

Customer Order-No. : PO-000038

Specification : Chemistry:

C: 0.93 - 1.05 %  
Si: 0.15 - 0.35 %  
Mn: 0.25 - 0.45 %  
P: max. 0.025 %  
S: max. 0.015 %  
Cr: 1.35 - 1.60 %  
Mo: max. 0.10 %

Chemistry Analysis (% - H [Hydrogen] in ppm)

	C	Si	Mn	P	S	Cr	Mo
18638	0.990	0.210	0.310	0.0081	0.0010	1.480	0.010

Hardness Piece

18638

Hardness after quench and temp:	65.6 HRC
Hardness after quench and temp:	64.5 HRC
Hardness after quench and temp:	56.4 HRC
Hardness after quench and temp:	57.0 HRC

We confirm, the material contains no radioactive contamination, that exceeds the natural values. The relevant legal requirements are kept.

Certificate is prepared by EDP-System and is valid without signature.

We hereby certify, the above mentioned material is in accordance with the terms of the order.

Approval & Certification  Wetzlar, 20.04:2018	Manufacturer Works inspector  Kai-Lukas Lotz		Page 1 of 1  Enclosures <input type="checkbox"/>
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