



A CHROMIUM PLATED BAR WITH EXCEPTIONAL PROPERTIES



THALACHROME

	Range Ø (mm)	Chrome layer	Tolerance	NSS	ASS
S	18 mm	15 µm	f7 from Ø18	96 h Rat. 10 and 312 h Rat. 9 mini	48 h Rat. 9
	19,05 ≤ Ø ≤ 160 mm	20 µm			
SI	18 mm	15 µm	f7 from Ø18	96 h Rat. 10 and 312 h Rat. 9 mini	48 h Rat. 9
	19,05 ≤ Ø ≤ 125 mm	20 µm			
SE120	18 mm	20 µm	f8 up to Ø19,05 included f7 from Ø20	120 h Rat. 10 and 504 h Rat. 9 mini	72 h Rat. 9
	19,05 ≤ Ø ≤ 160 mm	25 µm			
SIE120	20 ≤ Ø ≤ 125 mm	25 µm	f8 up to Ø19,05 included f7 from Ø20	120 h Rat. 10 and 504 h Rat. 9 mini	72 h Rat. 9
SE 250	18 mm	25 µm	f8 up to Ø28,575 included f7 from Ø30	250 h Rat. 10 and 744 h Rat. 9 mini	100 h Rat. 9
	19,05 ≤ Ø ≤ 160 mm	30 µm			
SIE 250	20 ≤ Ø ≤ 125 mm	30 µm	f8 up to Ø28,575 included f7 from Ø30	250 h Rat. 10 and 744 h Rat. 9 mini	100 h Rat. 9
SE 500 SIE500	Ø 20 to 125 mm	30 µm	f8 up to Ø28,575 included f7 from Ø30	500 Rat. 10 and 1008 Rat. 9 mini	200 h Rat. 9 CASS - Corrod- kote test

Salt spray test according to ISO 9227 - Evaluation according to ISO 10289



OUR REFERENCES

Civil engineering

CASE NEW HOLLAND • CATERPILLAR
HIDROMEK • JCB • MECALAC
WACKER NEUSON • VOLVO • WIRTGEN

Material Handling

CROWN • DHOLLANDIA
JUNGHEINRICH • STILL

Agricultural Equipment

CLAAS • QUICKE • JOHN DEERE
GIMA MASSEY FERGUSON

THALACHROME THE CHOICE OF EXCELLENCE



URANIE
INTERNATIONAL

SAS URANIE INTERNATIONAL

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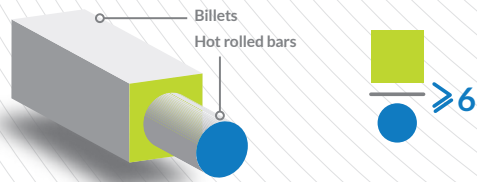
URANIE
INTERNATIONAL



THE PLUS OF URANIE
In line production

The exclusive process developed by URANIE enables us to control each step of the production at the same place (115 people to produce 4 000 Tons per month).
Production in line, 4 chroming workshops working 24 hours and 7 days. In House maintenance, no production stop, no intermediate stock, only one cycle of production to avoid any contamination or invisible corrosion

STEEL
Uranie rigorously selects its steel sources taking into account the requirements for chroming and the application demands of welding and machining. URANIE requires steel suppliers capable of a reduction ratio equal and over 6 to guarantee material free from any internal defect.



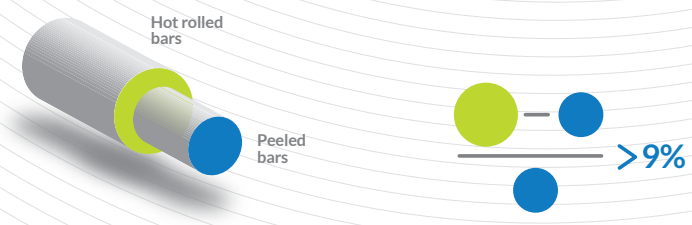
A WIDE CHOICE OF STEEL GRADES

steel grade	Ø (mm)	Re (N/mm ²)	Rm (N/mm ²)	A(%)	Yield PSI
C45E	18 - 95	305 mini	580 - 850	16 mini	45 000
	96 - 160	275 mini	560 - 710	16 mini	40 000
C35E	18	315 mini	560 - 750	19 mini	45 000
	37 - 160	275 mini	560 mini	19 mini	40 000
20MnV6	18 - 19	450 mini	550 - 850	17 mini	65 000
	20 - 65	450 mini	550 - 850	18 mini	65 000
	66 - 160	390 mini	530 - 850	21 mini	55 000
	Kv long. to -20°C at 27joules mini in average out of 3 tests samples				
38MnVS6	18 to 160	520 mini	800 to 950	12 mini	75 000

PEELING OPERATION

The rate of the diameter reduction used by URANIE avoids any risk of surface defects. The straightness of the bar is guaranteed by an automatic control.

THE PLUS OF URANIE
Diameter reduction over 9%



Peeling operation

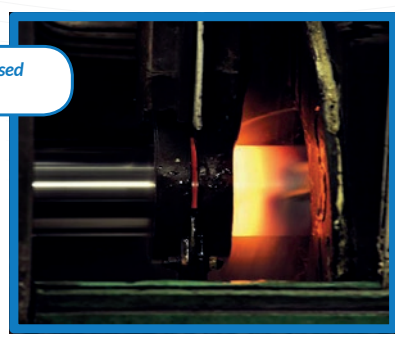


Straightness automatic control

INDUCTION HARDENING

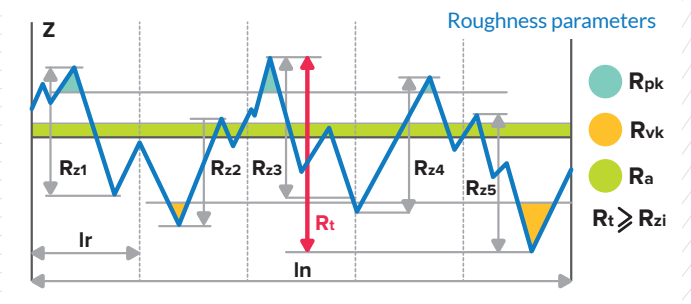
Grade	Hardness (HRC)	Depth (mm)
C45E	55 à 60	18 < Ø ≤ 40 : 1,0 à 2,0 mm 40 < Ø ≤ 80 : 1,2 à 2,5 mm 80 < Ø ≤ 125 : 2,0 à 3,0 mm
C35E	52 à 57	
20MnV6	42 à 52	
38MnV6	55 à 60	

THE PLUS OF URANIE
a fully computerised process

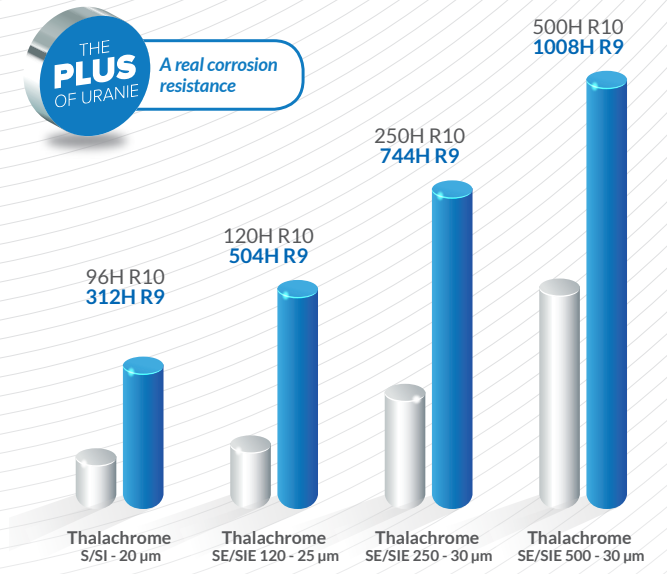


CHROMING

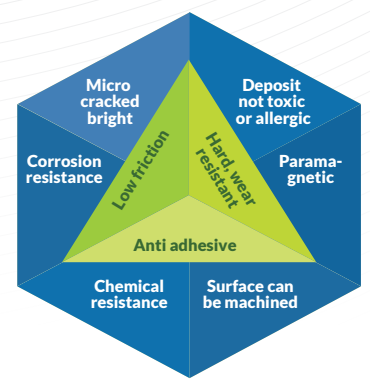
More than 15 checking points guarantee the total quality.



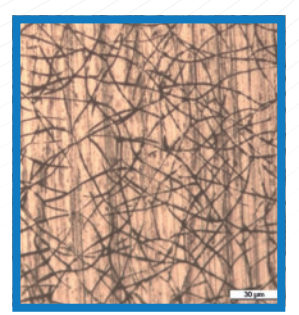
THE PLUS OF URANIE
A real corrosion resistance



Test acc. to ISO 9227 NSS
Evaluation acc. to ISO 10289



Chrome physical properties



minimum 5 000 Microcracks/mm²

THE PLUS OF URANIE
Precise chemical analysis