

### Product range

ESP 65 is produced in the form of bars in a size range of 6 to 80 mm diameter.

Process		Size range [mm]	Tolerance
drawn	+C	6 - 80	h9
peeled	+SH	18 - 80	h11
ground	+SL	6 - 80	≥ IT6

Identification colors ESP 65: Brown end face  
 Bar lengths: Standard 3 m, manufacturing lengths: 3 - 6 m.  
 End finish: standard finish  $\varnothing \leq 65$  mm is one-sided chamfered and one-sided pointed.  
 End machining according to special specification on request.  
 Special tolerances on request

### Chemical analysis (melt analysis % by weight)

Element	C	Si	Mn	P	S	Cr	Pb
min.	0,14	0,15	1,00		0,020	0,80	0,15
max.	0,19	0,40	1,30	0,025	0,035	1,10	0,30

Piece analysis and melt analysis may vary according to EN ISO 683-3

### Mechanical properties

State			+C	+SH
Proof stress	$R_{p0.2}$	N/mm <sup>2</sup>	≥ 300	≥ 300
Tensile strength	$R_m$	N/mm <sup>2</sup>	500 - 740	500 - 630
Ultimate elongation	$A_5$	%	≥ 12	≥ 13

For further info on our product range of tool steel, stainless steel and Engineering steel please visit [www.swisssteelgroup.com](http://www.swisssteelgroup.com)

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