



**SPL-LABMAT s.r.o.**

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**CERTIFICATE OF CHEMICAL ANALYSIS No 06 – 22**

**LOW ALLOY SILICON STEEL** for solid sample spectrometry, combustion and wet-way methods

**SPL SST-6A (PT 30/1C)**

**CERTIFIED VALUES – Mass content in %wt.**

<b>Element</b>	<b>Value [%wt.]</b>	<b>Uncertainty [%wt.]</b>
<b>C</b>	<b>0.0162</b>	0.0011
<b>Mn</b>	<b>0.315</b>	0.003
<b>Si</b>	<b>3.043</b>	0.040
<b>P</b>	<b>0.191</b>	0.005
<b>S</b>	<b>0.0085</b>	0.0003
<b>Cu</b>	<b>0.0364</b>	0.0015
<b>Cr</b>	<b>0.0714</b>	0.0019
<b>Ni</b>	<b>0.0391</b>	0.0009
<b>Al</b>	<b>0.497</b>	0.014
<b>Mo</b>	<b>0.0263</b>	0.0006
<b>W</b>	<b>0.0151</b>	0.0031

<b>Element</b>	<b>Value [%wt.]</b>	<b>Uncertainty [%wt.]</b>
<b>V</b>	<b>0.0231</b>	0.0005
<b>Ti</b>	<b>0.0491</b>	0.0013
<b>Co</b>	<b>0.0219</b>	0.0009
<b>As</b>	<b>0.0029</b>	0.0005
<b>Sn</b>	<b>0.0027</b>	0.0008
<b>B</b>	<b>0.0077</b>	0.0002
<b>Sb</b>	<b>0.0878</b>	0.0076
<b>Zr</b>	<b>0.0164</b>	0.0014
<b>Zn</b>	<i>0.0044</i>	
<b>N</b>	<b>0.0060</b>	0.0006

**PARTICIPATING LABORATORIES:**

ČEZ - JE Temelín, Czech Republic  
DAIMLER TRUCK AG, Germany  
DUNAFERR Labor Nonprofit, Hungary  
MM VÝZKUM, Czech Republic  
OCAS NV, Belgium  
SIJ METAL RAVNE, Slovenia

SSAB EMEA, Sweden  
TATA STEEL IJMUIDEN, Netherlands  
TÜV NORD Czech, Czech Republic  
U. S. STEEL Košice - Labortest, Slovakia  
VOESTALPINE, Austria  
ZPS - SLÉVÁRNA, Czech Republic



**Characterised** by results from SPL proficiency test **PT 30/1C** - laboratories by various spectrometric methods (AES spark, glow discharge, XRF) and alternative methods (combustion, thermoevolution, wet-way) standard methods, with measurements metrological traceable to adequate CRM (CZ 2001, 2003 - 2008, 2015-2024, BAS, Brammer Standard). Identity of PT participating laboratories is confidential.

**Certified values** in % m/m, tabulated below in bold, are robust means of a minimum five accepted laboratory means. They are rounded to the same digit as their uncertainty statement.

**Uncertainty** is expressed as a  $\pm$  half width interval combined from the standard uncertainty, expanded by the coverage factor  $k = 2$  (corresponding to 95% level of confidence). It does not exceed 1,5 multiple of the typical uncertainty of the matching CRM.

**Non-certified values** in regular without the uncertainty statement do not meet the requirements for certification and are intended for the matrix information.

**User instruction:** the surface of the specimens and RM should be prepared in a similar manner in accordance with manufacturer's instructions of spectrometers. It is recommended to storage of RM in dry and non-corrosive conditions.

**Produced by:** SPL-LABMAT s.r.o.

**Responsible person:** Martin Bogumský

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