

<b>A01</b> Tata Steel IJmuiden BV Venckbachstraat 1 51 JZ Velsen Noord 1808 478 CA IJmuiden The Netherlands Telephone: 0201-492118 Company Trade Register: 34840551 E-mail: info.testing@tatasteelaurope.com		<b>A02</b> Inspection certificate 3.1, EN10204. STERA TECHNOLOGIE00020 B01.002.003.004.015		<b>TATA STEEL</b>	
<b>A03</b> Reference 450009791 11001473		<b>A04</b> Doc. nr 2019028571 00			
<b>A05</b> Customer/Commission NAANTALI STEEL SERVICE CENTRE OY RAUTAKATU 5  21110 NAANTALI FINLAND		<b>A06</b> Hot rolled pickled, Coil, S355MC, YMPRESS WG S:01-2010. 1.00 G/H2/Side oiled. Mill edges.  Tolerance EN 10051 : 2010 (E) (Width tolerance +20/-0 mm) Dev.To1. (Thickness tolerance +0.14/-0.14 mm).			
<b>A07</b> Order nr. 55097 B		<b>A08</b> Dispatch note 50061		<b>A09</b> Transport NORDBORG	
<b>A10</b> Dimensions 1500 mm X 4.00 mm		<b>A11</b> TENSILE TEST			
<b>A12</b> HARDNESS		<b>A13</b> IMPACT TEST AND OTHER TESTS			
<b>A14</b> PROD. IDENT 858461 858462 860844 860845		<b>A15</b> MASS kg 10440 10220 10460 10110		<b>A16</b> CAST NR. M3090 M4035	
<b>A17</b> NR 1 1 1 1		<b>A18</b> NR 32 32		<b>A19</b> NR 1L P 1L P	
<b>A20</b> Temp °C + 20 + 20		<b>A21</b> R <sub>eh</sub> MPa 395 398		<b>A22</b> R <sub>eL</sub> MPa   	
<b>A23</b> R <sub>pe.0</sub> MPa   		<b>A24</b> R <sub>m</sub> MPa 474 485		<b>A25</b> A % 32.0 31.0	
<b>A26</b> R <sub>z</sub> /R <sub>m</sub> %   		<b>A27</b> r-value   		<b>A28</b> n-value   	
<b>A29</b> HARDNESS   		<b>A30</b> Charpy   		<b>A31</b> mm   	
<b>A32</b> Temp °C   		<b>A33</b> Ind.   		<b>A34</b> Ind.   	
<b>A35</b> Ind.   		<b>A36</b> mean   		<b>A37</b> ASTM E-112	
<b>A38</b> TOTAL 41230 4					
<b>A39</b> CHEMICAL COMPOSITION in %		<b>A40</b> 1: J/cm <sup>2</sup> 2: J 5: later. exp. (mm)		<b>A41</b> 6: Contraction (%) 7: Shear area (%)	
<b>A42</b> CAST NR. M3090 M4035		<b>A43</b> C 0.052 0.074		<b>A44</b> Mn 0.501 0.494	
<b>A45</b> P 0.013 0.013		<b>A46</b> S 0.008 0.006		<b>A47</b> Si 0.013 0.012	
<b>A48</b> Al 0.037 0.034		<b>A49</b> Cu 0.013 0.013		<b>A50</b> Cr 0.028 0.025	
<b>A51</b> Ni 0.003 0.003		<b>A52</b> Mo 0.024 0.025		<b>A53</b> Nb 0.003 0.003	
<b>A54</b> V 0.003 0.003		<b>A55</b> N 0.0024 0.0027		<b>A56</b> B 0.0000 0.0000	
<b>A57</b> C-eq 0.036 0.035		<b>A58</b> Al-20 0.003 0.003		<b>A59</b> Sn 0.002 0.001	
<b>A60</b> Ti 0.002 0.001		<b>A61</b> C-eq1 0.155 0.167		<b>A62</b> C = Ni / C + Mn / 6 + Cr + Mo + V / 5 + (Ni + Cu) / 15	
<b>A63</b> STEELMAKING PROCESS: BO		<b>A64</b> Page 1 of 1			
<b>A65</b> C50 Bulgproef : goed / good / gut / concluant		<b>A66</b> Stamp of the expert :		<b>A67</b> Tata Steel IJmuiden BV  JOOST COPPENS MANAGER TESTING  IJMUIDEN, 16 MAART 2019	
<b>A68</b> Z01 We hereby confirm that we comply to the terms of our order acknowledgement and any agreed concessions					