



# SIDERMARCA

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|                                                                                                                                                                                                               |              |                           |                        |                           |              |                                 |              |               |               |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------|------------------------|---------------------------|--------------|---------------------------------|--------------|---------------|---------------|-------------|
| A06 - Customer:                                                                                                                                                                                               |              | <b>KROKAR D.O.O.</b>      |                        | SPODNJI PLAVZ 28          |              | _ 4270 - JESENICE               |              | _ SLOVENIA    |               |             |
| A02 - Type of inspection document                                                                                                                                                                             |              |                           |                        | A03 - Document number     |              | Z02 - Date of issue             |              |               |               |             |
| Values of the Certificate of Control 3.1 according to EN 10204:2004 Manufacturer                                                                                                                              |              |                           |                        | <b>CRT2500017096</b>      |              | 06/10/2026                      |              |               |               |             |
| B02 - Grade - B03 - Execution - B01 - Section                                                                                                                                                                 |              |                           |                        |                           |              |                                 |              |               |               |             |
| <b>S355J2+AR Hot Rolled Round</b>                                                                                                                                                                             |              |                           |                        |                           |              |                                 |              |               |               |             |
| B02 - Standard of reference ( edition in force at the date of the order) <b>EN 10025-2/04</b>                                                                                                                 |              |                           |                        |                           |              |                                 |              |               |               |             |
| B09 - Size [mm]                                                                                                                                                                                               |              | B03 - Tolerance           |                        | B04 - Delivery condition  |              | B05 - Heat treatment            |              |               |               |             |
| <b>230</b>                                                                                                                                                                                                    |              | <b>EN 10060</b>           |                        | <b>+AR</b>                |              | <b>As rolled</b>                |              |               |               |             |
| A09 - Customer article designation                                                                                                                                                                            |              |                           | B08 - Quantity         |                           |              | B10 - Length [mm]               |              |               |               |             |
|                                                                                                                                                                                                               |              |                           | <b>[kg] 428</b>        |                           |              | <b>1295</b>                     |              |               |               |             |
| B07 - Lot                                                                                                                                                                                                     |              | B07 - Heat                |                        | C70 - Stellmaking process |              |                                 |              |               |               |             |
| <b>L25027204</b>                                                                                                                                                                                              |              | <b>T56173</b>             |                        |                           |              |                                 |              |               |               |             |
| A07 - Your Order                                                                                                                                                                                              |              |                           | A08 - Our Confirmation |                           |              | A10 - Transport document NR.    |              |               |               |             |
| <b>569</b>                                                                                                                                                                                                    |              |                           | <b>MRA2617449</b>      |                           |              | <b>MRA2607731 of 06/10/2026</b> |              |               |               |             |
| <b>HEAT ANALYSIS</b>                                                                                                                                                                                          |              |                           |                        |                           |              |                                 |              |               |               |             |
| C71                                                                                                                                                                                                           | C72          | C73                       | C74                    | C75                       | C76          | C77                             | C78          | C79           | C80           |             |
| C %                                                                                                                                                                                                           | Si %         | Mn %                      | P %                    | S %                       | Cr %         | Mo %                            | Ni %         | Cu %          | Al %          | CEV%        |
| <b>0,1800</b>                                                                                                                                                                                                 | <b>0,364</b> | <b>1,320</b>              | <b>0,0140</b>          | <b>0,0070</b>             | <b>0,090</b> | <b>0,0150</b>                   | <b>0,040</b> | <b>0,0300</b> | <b>0,0270</b> | <b>0,42</b> |
| <b>Reference mechanical properties of the specimen:</b>                                                                                                                                                       |              |                           |                        |                           |              |                                 |              |               |               |             |
| <b>- Heat treatment: +N</b>                                                                                                                                                                                   |              |                           |                        |                           |              |                                 |              |               |               |             |
| Tensile test according to standard EN-ISO 6892                                                                                                                                                                |              |                           |                        |                           |              |                                 |              |               |               |             |
| C12 - Rm [MPa]                                                                                                                                                                                                |              | C11 - Re-Rp 0,2 (*) [MPa] |                        | C13 - A % 5d-L            |              | C14 - Z% L                      |              |               |               |             |
| <b>542,0</b>                                                                                                                                                                                                  |              | <b>408,0</b>              |                        | <b>33,00</b>              |              | <b>75,8</b>                     |              |               |               |             |
| * According to the reference standard                                                                                                                                                                         |              |                           |                        |                           |              |                                 |              |               |               |             |
| Resilienza KV2 -20°C secondo la norma EN-ISO 148 / Impact test KV2 -20°C according to standard EN-ISO 148 / Kerbzähigkeit KV2 -20°C nach Standard EN-ISO 148 / Resilience KV2 -20°C Selon la norme EN-ISO 148 |              |                           |                        |                           |              |                                 |              |               |               |             |
| KV2[J]                                                                                                                                                                                                        | KV2[J]       | KV2[J]                    |                        |                           |              |                                 |              |               |               |             |
| <b>179,0</b>                                                                                                                                                                                                  | <b>238,0</b> | <b>199,0</b>              |                        |                           |              |                                 |              |               |               |             |
| <b>HARDNESS ACCORDING TO STANDARD EN-ISO 6506-1</b>                                                                                                                                                           |              |                           |                        |                           |              |                                 |              |               |               |             |
| C30 - HB                                                                                                                                                                                                      |              |                           |                        |                           |              |                                 |              |               |               |             |
| C42 - <b>153</b>                                                                                                                                                                                              |              |                           |                        |                           |              |                                 |              |               |               |             |
| Grain Size (ASTM E112) <b>8,00</b>                                                                                                                                                                            |              |                           |                        |                           |              |                                 |              |               |               |             |

#### Z01 - Remarks:

The product supplied complies with the requirements of the order.

This product complies with the Directive 2002/95/EC RoHS as amended

This product complies with the Regulation (EC) n. 1907/2006 REACH

Material free from radioactive contamination

A05 - Responsible for quality control

*Luca Penato*