

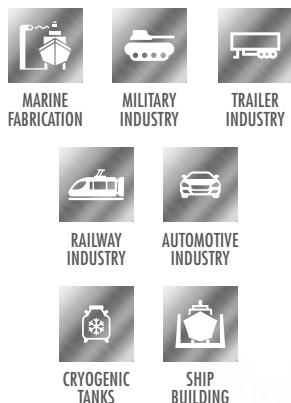
## RodaAluweld 5183

REFERENCE STANDARDS: EN ISO 18273:2015 | AWS A5.10/A5.10:2021

### Certifications:



### Applications:



RA 4011 1F

### RANGE:

| mm. | 0.80 | 1.20 | 2.00 | 3.17 |
|-----|------|------|------|------|
|-----|------|------|------|------|

### CHEMICAL COMPOSITION OF THE WIRE (wt.-%):

|        | Si  |      | Fe  |      | Cu  |      | Mn   |      | Mg   |      | Cr   |      | Zn  |      | Ti  |      | Be  |        | Other each |      | Other total |      | Al   |     |
|--------|-----|------|-----|------|-----|------|------|------|------|------|------|------|-----|------|-----|------|-----|--------|------------|------|-------------|------|------|-----|
|        | Min | Max  | Min | Max  | Min | Max  | Min  | Max  | Min  | Max  | Min  | Max  | Min | Max  | Min | Max  | Min | Max    | Min        | Max  | Min         | Max  | Min  | Max |
| EN ISO | -   | 0,40 | -   | 0,40 | -   | 0,10 | 0,05 | 1,00 | 4,30 | 5,20 | 0,05 | 0,25 | -   | 0,25 | -   | 0,15 | -   | 0,0003 | -          | 0,05 | -           | 0,15 | rem. |     |
| AWS    | -   | 0,40 | -   | 0,40 | -   | 0,10 | 0,05 | 1,00 | 4,30 | 5,20 | 0,05 | 0,25 | -   | 0,25 | -   | 0,15 | -   | 0,0003 | -          | 0,05 | -           | 0,15 | rem. |     |

### MECHANICAL PROPERTIES OF ALL-WELD METAL:

|                        | typical values (*) | AN ISO<br>minimum values                                                   | AWS<br>typical values (**) |
|------------------------|--------------------|----------------------------------------------------------------------------|----------------------------|
| Tensile strength (Rm)  | 300 [MPa]          | mechanical properties of the weld metal are not part of the classification | 283                        |
| Yield strength (Rp0,2) | 125 [MPa]          |                                                                            |                            |
| Elongation (A%)        | 217 (Lo=5do)       |                                                                            |                            |

(\*) Typical values are referred to EN ISO 14175 - I1 (100% Ar); base material 5083 O; welding position PA; preheating T -; Interpass T 85°C; as-welded condition.

Tensile test acc. to EN ISO 4136; Charpy impact test acc. to EN ISO 9016. Text results should not be assumed to be expected results in a particular application or weldment.

(\*\*) Typical Historical Ultimate Tensile Strength Properties according to AWS A5.10/A5.10M 2017 table A2 (informative).

### PACKAGING AND AVAILABLE SIZES:

| ON DEMAND           |                    |                    |                     |                  |                      |                       |                       |
|---------------------|--------------------|--------------------|---------------------|------------------|----------------------|-----------------------|-----------------------|
| D-100<br>(0.45 kg.) | D-200<br>(2.0 kg.) | D-300<br>(7.0 kg.) | KS-300<br>(7.0 kg.) | D-355<br>(18kg.) | ALU DRUM<br>(50 kg.) | ALU DRUM<br>(173 kg.) | ALU DRUM<br>(400 kg.) |