






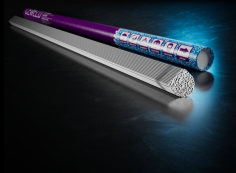


# CEWELD ERTi-12 Tig

|   |  |                                 |                       |           |     |     |      |
|---|--|---------------------------------|-----------------------|-----------|-----|-----|------|
| TYPE  | Titanium Tig welding wire grade 12   |                                 |                       |           |     |     |      |
| APPLICATIONS                                      | This alloy finds his applications in chemical industry and offers excellent Weldability. Often recommended for pressure vessels and piping for its superior strength alone.  |                                 |                       |           |     |     |      |
| PROPERTIES  | ERTi-12. Grade 12 (Ti 0.8Ni0.3Mo) is an intermediate strength grade originally developed to provide enhanced crevice-corrosion resistance in high temperature brines, but at lower cost than Grade 7. The improved performance is believed to be the result of Ni++ and Mo++ ions that alter the surface electrochemistry of the material in the crevice or under a surface deposit. Grade 12 has better elevated temperature properties than Grade 2 or 3 and is sometimes specified for pressure vessels or piping for its superior strength alone.  |                                 |                       |           |     |     |      |
| CLASSIFICATION                                    | AWS  | A 5.16: ERTi-12                 |                       |           |     |     |      |
|   | EN ISO   | 24034: S Ti 3401 / TiNi0,7Mo0,3 |                       |           |     |     |      |
|   | F-nr   | 51                              |                       |           |     |     |      |
|   | W.Nr.  | ~3.7105                         |                       |           |     |     |      |
| SUITABLE FOR                                      | 3.7105<br>Titanium grade 12, Grade 7, Grade 2 and Grade 3<br>R56400<br>Ti3AL-1,5Mn   |                                 |                       |           |     |     |      |
| APPROVALS   | No Approvals Found   |                                 |                       |           |     |     |      |
| WELDING POSITIONS                                 |        |                                 |                       |           |     |     |      |
| TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%) | C  | H                               | N                     | O         | Fe  | Ni  | Ti   |
|   | 0.02   | 0.005                           | 0.01                  | 0.12      | 0.1 | 0.8 | Rem. |
| ALL WELD MECHANICAL PROPERTIES                    | Heat Treatment   | R <sub>P0,2</sub><br>MPa        | R <sub>m</sub><br>MPa | A5<br>(%) |     |     |      |
|   | As Welded /  | 345                             | 480                   | 20        |     |     |      |
| REDRYING TEMPERATURE                              | Not required   |                                 |                       |           |     |     |      |
| GAS ACCORDING EN 14175                            | I1   |                                 |                       |           |     |     |      |



# CEWELD ERTi-12 Tig

|                          |      |         |               |
|--------------------------|------|---------|---------------|
| ERTI-12 TIG 1,6 X 1000MM | Type | KG/unit | EANCode       |
|                          | Tube | 2,5     | 8720663406477 |
| ERTI-12 TIG 2,0 X 1000MM | Type | KG/unit | EANCode       |
|                          | Tube | 2,5     | 8720663406484 |
| ERTI-12 TIG 2,4 X 1000MM | Type | KG/unit | EANCode       |
|                          | Tube | 2,5     | 8720663406491 |
| ERTI-12 TIG 3.2 X 1000MM | Type | KG/unit | EANCode       |
|                          | Tube | 2,5     | 8720663406507 |