



# CEWELD FL 155

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                         |      |         |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------|---------|
| TYPE                                       | High basic SAW flux with very low hydrogen content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |      |         |
| APPLICATIONS                               | <p>CEWELD® FL 155 has a low hydrogen content after re-drying and, if the recommended temperature control is adhered to, optimum mechanical properties that enable the welding of thick-walled structural steels with yield strengths of up to 420 MPa.</p> <p>Applicable for</p> <ul style="list-style-type: none"><li>• Offshore applications up to a yield strength of 550 MPa</li><li>• Fine-grain structural steels for low-temperature requirements with notched impact strengths of -60 °C and below</li><li>• High-strength fine-grain structural steels with yield strengths of up to 700 MPa are also possible</li></ul> <p>N-A-XTRA 70 Boiler and shipbuilding steels, drilling rigs, crane construction, offshore foundations, jack-ups, narrow gap welding, multi-layer welding.</p>                                                      |                         |      |         |
| PROPERTIES                                 | <p>CEWELD® FL 155 is an agglomerated fluoride basic flux with high basicity and low impurity levels such as P and S. As a result of the low oxygen levels in the weld deposits, uniform mechanical properties are achieved with high toughness values at low temperatures. Designed for multi-wire applications where high deposition rates and good slag removal are required, this flux shows excellent weldability and weld bead appearance.CEWELD® FL 155 is suitable for welding on D.C. and A.C. using single, tandem and multi-wire processes.</p> <ul style="list-style-type: none"><li>• Basicity according to Boniszewski: ~3,2</li><li>• Flux density: 0.95 kg/dm3 (l)</li><li>• Grain size acc. to ISO 14174: 2–20 (Tyler 8×65)</li><li>• Current-carrying capacity: up to 800 A (DC or AC) using one wire</li></ul>                      |                         |      |         |
| CLASSIFICATION                             | EN ISO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 14174: SA FB 1 55 AC H5 |      |         |
| SUITABLE FOR                               | <p>S355, S420, S460, S690, P500, P550, X65, X70, X80, Weldox 700, Naxtra 70, Hardox 400, Dilimax, P91, P24</p> <p>Typical wire combinations:</p> <p>CEWELD® S2 ISO 14171-A: S 38 6 FB S2 AWS 5.17_5.23:F48A6/P6-EM12(K) F7A8/P8-EM12(K)</p> <p>CEWELD® S2Si ISO 14171-A: S 38 6 FB S2Si AWS 5.17_5.23:F48A6/P6-EM12K F7A8/P8-EM12K</p> <p>CEWELD® S3Si ISO 14171-A: S 46 6 FB S3Si AWS 5.17_5.23:F55A6/F55P6-EH12K F8A8/F8P8-EH12K</p> <p>CEWELD® S2Mo ISO 14171-A: S 46 4 FB S2Mo AWS 5.17_5.23:F55A4/F49P4-EA2-A2 F8A4/F7P4-EA2-A2</p> <p>CEWELD® S2Ni3 ISO 14171-A: S 50 8 FB S2Ni3 AWS 5.17_5.23:F55A7/P7-ENi3-Ni3 F8A10/P10-ENi3-Ni3</p> <p>CEWELD® S3NiMoCr ISO 26304-A: S 69 6 FB- S3Ni2,5CrMo AWS 5.17_5.23: F76A6/P6-EM4 mod.-M4 F11A8/P8-EM4 mod.-M4</p> <p>CEWELD® SACW 690 ISO 26304-A: S 69 6 FB T3Ni2,5CrMo AWS 5.23: F11A8-ECF5-F5</p> |                         |      |         |
| APPROVALS                                  | TÜV: 12709, CE, Lloyds, DNV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |      |         |
| WELDING POSITIONS                          | <div>PAPBPC</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         |      |         |
| TYPICAL CHEMICAL COMPOSITION IN WEIGHT (%) | Al2O3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CaF2                    | SiO2 | CaO+MgO |
|                                            | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 25                      | 15   | 40      |
| MECHANICAL PROPERTIES                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                         |      |         |
| REDRYING                                   | 300°C / 2 hr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                         |      |         |
| GAS ACC. EN ISO 14175                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                         |      |         |



# CEWELD FL 155



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FL 155 0,2 - 2,0MM

| Packaging | KG/unit | EanCode       |
|-----------|---------|---------------|
| Bag       | 20/25   | 8720663424006 |
| Can       | 25      | 8720663424013 |