

# DIN EN 13445-8/A1:2015-03 (E)

## Unfired pressure vessels - Part 8: Additional requirements for pressure vessels of aluminium and aluminium alloys (includes Amendment A1:2014)

---

| <b>Contents</b> |                                                                                                                | <b>Page</b> |
|-----------------|----------------------------------------------------------------------------------------------------------------|-------------|
| Foreword .....  |                                                                                                                | 3           |
| 1               | Modification to Clause 2 .....                                                                                 | 4           |
| 2               | Modification to subclause 5.1 .....                                                                            | 5           |
| 3               | Modification of subclause 5.2 .....                                                                            | 5           |
| 4               | Modification of subclause 5.3 .....                                                                            | 6           |
| 5               | Modification of subclause 5.4 .....                                                                            | 6           |
| 6               | Modification of subclause 5.5 .....                                                                            | 6           |
| 7               | Modification of subclause 5.6 .....                                                                            | 6           |
| 8               | Modification of subclause 6.2 .....                                                                            | 7           |
| 9               | Modification to subclause 6.3 .....                                                                            | 7           |
| 10              | Modification to subclause 6.5 .....                                                                            | 8           |
| 11              | Modification to subclause 6.6.4 .....                                                                          | 8           |
| 12              | New subclause 6.7 Flat ends .....                                                                              | 8           |
| 13              | New subclause 6.8 Design by experiment .....                                                                   | 8           |
| 14              | New subclause 6.9 Port-hole-extruded tubes .....                                                               | 8           |
| 15              | New subclause 7.3 Tolerances .....                                                                             | 9           |
| 16              | Modification to current Sub-Clause 7.3 "Welding procedure specification (WPS)" (to become subclause 7.4) ..... | 9           |
| 17              | Modification to current subclause 7.8 "Production test, reference criteria" (to become subclause 7.9) .....    | 9           |
| 18              | Modification to current subclause 7.9 "Extent of testing" (to become subclause 7.10) .....                     | 10          |
| 19              | Modification to current subclause 7.12 "Heat treatment after forming" (to become subclause 7.13) .....         | 10          |
| 20              | Modification to current subclause 7.13 "Sampling of formed products" (to become subclause 7.14) .....          | 11          |
| 21              | Modification to current subclause 7.14 "Tests" (to become subclause 7.15) .....                                | 11          |
| 22              | Modification to current subclause 7.15 "Post weld heat treatment (PWHT)" (to become subclause 7.16) .....      | 11          |

|    |                                                    |    |
|----|----------------------------------------------------|----|
| 23 | Modification to subclause 8.3 .....                | 11 |
| 24 | Modification to subclause 8.4 .....                | 15 |
| 25 | Modification to subclause 8.5 .....                | 16 |
| 26 | New Annex A Allowable design strength values ..... | 16 |
| 27 | Update of Annex ZA .....                           | 22 |
| 28 | Update of bibliography .....                       | 23 |