

# DIN 29595:2007-04 (E)

## Welding in aerospace - Fusion welded metallic components - Requirements

---

| <b>Contents</b>       |  | <b>Page</b> |
|-----------------------|--|-------------|
| Foreword .....        |  | 3           |
| 1                     | Scope .....                                | 4           |
| 2                     | Normative references .....                 | 4           |
| 3                     | Symbols .....                              | 6           |
| 4                     | Requirements for fusion welding .....      | 6           |
| 5                     | Safety categories and quality levels ..... | 7           |
| 5.1                   | General .....                              | 7           |
| 5.2                   | Safety category I .....                    | 7           |
| 5.3                   | Safety category II .....                   | 7           |
| 5.4                   | Safety category III .....                  | 7           |
| 5.5                   | Quality levels .....                       | 7           |
| 6                     | Requirements .....                         | 7           |
| 6.1                   | General .....                              | 7           |
| 6.2                   | Materials .....                            | 7           |
| 6.3                   | Drawings and inspection schedules .....    | 8           |
| 6.4                   | Manufacturing conditions .....             | 8           |
| 6.5                   | Repair and maintenance .....               | 8           |
| 6.6                   | Manufacturing documentation .....          | 8           |
| 6.7                   | Limits for imperfections .....             | 8           |
| 7                     | Quality inspection .....                   | 8           |
| 7.1                   | General .....                              | 8           |
| 7.2                   | Test methods .....                         | 9           |
| 7.3                   | Scope of testing .....                     | 11          |
| 7.4                   | Repeat testing .....                       | 11          |
| Annex A (informative) | Calculated values .....                    | 20          |