

ISO 4997:2025-04 (E)

Cold-reduced carbon steel sheet of structural quality

| Contents | | Page |
|--------------------------|---|-------------|
| Foreword..... | | iv |
| 1 | Scope..... | 1 |
| 2 | Normative references..... | 1 |
| 3 | Terms and definitions..... | 1 |
| 4 | Dimensions..... | 2 |
| 5 | Conditions of manufacture..... | 2 |
| 5.1 | Steelmaking..... | 2 |
| 5.2 | Chemical composition..... | 2 |
| 5.3 | Chemical analysis..... | 3 |
| 5.3.1 | Heat analysis..... | 3 |
| 5.3.2 | Product analysis..... | 3 |
| 5.4 | Weldability..... | 3 |
| 5.5 | Application..... | 4 |
| 5.6 | Mechanical properties..... | 4 |
| 5.7 | Surface quality..... | 4 |
| 5.7.1 | General..... | 4 |
| 5.7.2 | Surface quality A (unexposed)..... | 4 |
| 5.7.3 | Surface quality B (exposed)..... | 4 |
| 5.8 | Surface finish..... | 5 |
| 5.9 | Suitability for surface coating..... | 5 |
| 5.10 | Oiling..... | 5 |
| 6 | Dimensional and shape tolerances..... | 5 |
| 7 | Tensile-test sampling..... | 5 |
| 8 | Tensile test..... | 5 |
| 9 | Retests..... | 6 |
| 9.1 | Machining and flaws..... | 6 |
| 9.2 | Elongation..... | 6 |
| 9.3 | Additional tests..... | 6 |
| 10 | Resubmission..... | 6 |
| 11 | Workmanship..... | 6 |
| 12 | Inspection and acceptance..... | 6 |
| 13 | Coil size..... | 7 |
| 14 | Marking..... | 7 |
| 15 | Information to be supplied by the purchaser..... | 7 |
| Bibliography..... | | 8 |