

ISO 17577:2016-01 (E)

Steel - Ultrasonic testing of steel flat products of thickness equal to or greater than 6 mm

| Contents | | Page |
|--------------------|--|-------------|
| Foreword | | iv |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Principle | 2 |
| 5 | Personnel | 2 |
| 6 | Testing system | 3 |
| 6.1 | General requirements | 3 |
| 6.2 | Manual testing instrument | 3 |
| 6.3 | Automated testing system | 3 |
| 6.4 | Performance of electronic equipment | 3 |
| 6.4.1 | Linearity | 3 |
| 6.4.2 | Dead zone | 4 |
| 6.5 | Probes | 4 |
| 6.6 | Coupling medium | 4 |
| 7 | Test procedure | 4 |
| 7.1 | Time of testing | 4 |
| 7.2 | Scanning plan | 5 |
| 7.2.1 | General | 5 |
| 7.2.2 | Testing of the flat-product body | 5 |
| 7.2.3 | Testing of the edges of the flat products | 5 |
| 7.3 | Scanning condition | 5 |
| 7.4 | Sensitivity and range setting | 6 |
| 8 | Determination of the discontinuity size | 7 |
| 8.1 | Testing the flat-product body | 7 |
| 8.1.1 | Testing with dual-element probes | 7 |
| 8.1.2 | Testing with single-element probes | 7 |
| 8.2 | Testing the edges | 8 |
| 9 | Acceptance criteria | 8 |
| 10 | Test report | 8 |
| Bibliography | | 13 |