

# DIN EN ISO 17463:2022-05 (E)

## Paints and varnishes - Guidelines for the determination of anticorrosive properties of organic coatings by accelerated cyclic electrochemical technique (ISO 17463:2022)

| <b>Contents</b>   |       | <b>Page</b> |
|---|-------|-------------|
| <b>European foreword</b>  | ..... | <b>3</b>    |
| <b>Foreword</b>   | ..... | <b>4</b>    |
| <b>Introduction</b>   | ..... | <b>5</b>    |
| <b>1 Scope</b>  | ..... | <b>6</b>    |
| <b>2 Normative references</b>   | ..... | <b>6</b>    |
| <b>3 Terms and definitions</b>  | ..... | <b>6</b>    |
| <b>4 Principle</b>  | ..... | <b>7</b>    |
| 4.1 General   | ..... | 7           |
| 4.2 EIS measurement   | ..... | 7           |
| 4.3 Cathodic polarization   | ..... | 8           |
| 4.4 Potential relaxation  | ..... | 8           |
| <b>5 Apparatus</b>  | ..... | <b>8</b>    |
| <b>6 Specimens</b>  | ..... | <b>8</b>    |
| 6.1 Samples preparation   | ..... | 8           |
| 6.2 Environmental control   | ..... | 8           |
| 6.3 Number of specimens and repeatability of results                  | ..... | 8           |
| <b>7 Procedure</b>  | ..... | <b>9</b>    |
| 7.1 EIS measurement   | ..... | 9           |
| 7.2 Cathodic polarization   | ..... | 9           |
| 7.3 Relaxation process  | ..... | 9           |
| 7.4 Number of cycles  | ..... | 9           |
| <b>8 Data presentation</b>  | ..... | <b>9</b>    |
| 8.1 Graphics for EIS  | ..... | 9           |
| 8.2 Graphics for the potential relaxation                             | ..... | 10          |
| <b>9 Precision</b>  | ..... | <b>10</b>   |
| <b>10 Test report</b>   | ..... | <b>10</b>   |
| <b>Annex A (informative) Typical example of results from coatings</b> | ..... | <b>12</b>   |
| <b>Bibliography</b>   | ..... | <b>19</b>   |