

# ISO 22553-4:2019-10 (E)

## Paints and varnishes - Electro-deposition coatings - Part 4: Compatibility of electro-deposition coating materials with liquid, paste-like and solid foreign materials

---

| <b>Contents</b>    |  | <b>Page</b> |
|--------------------|--|-------------|
| Foreword .....     |  | iv          |
| Introduction ..... |  | v           |
| 1                  | Scope .....  | 1           |
| 2                  | Normative references .....   | 1           |
| 3                  | Terms and definitions .....  | 1           |
| 4                  | Principles .....   | 2           |
| 5                  | Apparatus and materials .....  | 2           |
| 6                  | Reagents .....   | 3           |
| 7                  | Foreign materials .....  | 3           |
| 8                  | Test panels .....  | 3           |
| 9                  | Method A -- Direct contamination .....                                   | 3           |
| 9.1                | Blank test .....   | 3           |
| 9.2                | Number of determinations .....   | 4           |
| 9.3                | Contamination of the electro-deposition tank with foreign material ..... | 4           |
| 9.3.1              | Liquid foreign material .....  | 4           |
| 9.3.2              | Paste-like foreign material .....  | 4           |
| 9.3.3              | Solid foreign materials .....  | 5           |
| 9.4                | Coating of the test panels .....   | 6           |
| 9.5                | Evaluation .....   | 6           |
| 10                 | Method B -- Contact contamination .....                                  | 6           |
| 10.1               | Blank test .....   | 6           |
| 10.2               | Number of determinations .....   | 6           |
| 10.3               | Contamination of the test panels .....                                   | 6           |
| 10.4               | Coating of the test panels .....   | 6           |
| 10.5               | Evaluation .....   | 7           |
| 11                 | Method C -- Contamination during the stoving process .....               | 7           |
| 11.1               | Blank test .....   | 7           |
| 11.2               | Number of determinations .....   | 7           |
| 11.3               | Coating of the test panel .....  | 7           |
| 11.4               | Preparation of the base panel with the foreign material .....            | 7           |
| 11.5               | Stoving of the test specimens .....                                      | 8           |
| 11.6               | Evaluation .....   | 8           |
| 12                 | Precision .....  | 8           |
| 13                 | Test report .....  | 9           |
| Bibliography ..... |  | 10          |