

ISO 11424:2017-02 (E)

Rubber hoses and tubing for air and vacuum systems for internal-combustion engines - Specification

| Contents | | Page |
|---|--|-------------|
| Foreword | | iv |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms, definitions and abbreviated terms | 2 |
| 4 | Classification | 2 |
| 4.1 | Types | 2 |
| 4.2 | Classes | 2 |
| 5 | Hose and tubing bores | 3 |
| 6 | Dimensions and tolerances | 3 |
| 6.1 | Hoses | 3 |
| 6.2 | Tubing | 3 |
| 7 | Requirements for physical properties | 4 |
| 7.1 | Rubber compounds | 4 |
| 7.1.1 | Selection of test pieces | 4 |
| 7.1.2 | Hardness | 4 |
| 7.1.3 | Tensile strength and elongation at break | 4 |
| 7.1.4 | Change in properties after heat-ageing | 4 |
| 7.1.5 | Compression set | 5 |
| 7.1.6 | Resistance to oxygenated fuels | 5 |
| 7.1.7 | Resistance to oil No.3 | 5 |
| 7.2 | Hose and tubing | 5 |
| 7.2.1 | Proof pressure | 5 |
| 7.2.2 | Minimum burst pressure | 6 |
| 7.2.3 | Adhesion | 6 |
| 7.2.4 | Ozone resistance | 6 |
| 7.2.5 | Low-temperature flexibility after heat-ageing | 6 |
| 7.2.6 | Amount of extractable products | 6 |
| 7.2.7 | Tear resistance | 6 |
| 7.2.8 | Suction resistance (only for Type A) | 6 |
| 7.2.9 | Resistance to kinking | 7 |
| 8 | Frequency of testing | 7 |
| 9 | Marking | 7 |
| 10 | Recommendations for packaging and storage | 7 |
| Annex A (normative) Type and routine tests | | 10 |
| Annex B (informative) Recommended production tests | | 11 |
| Bibliography | | 12 |