

ISO 8331:2016-11 (E)

Rubber and plastics hoses and hose assemblies - Guidelines for selection, storage, use and maintenance

| Contents | | Page |
|-----------------|--|-------------|
| Foreword | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | General recommendations | 1 |
| 4.1 | Selection criteria | 1 |
| 4.2 | Storage conditions | 2 |
| 4.2.1 | General | 2 |
| 4.2.2 | Storage period | 2 |
| 4.2.3 | Temperature | 3 |
| 4.2.4 | Humidity | 3 |
| 4.2.5 | Light | 3 |
| 4.2.6 | Ozone | 3 |
| 4.2.7 | Environment | 3 |
| 4.2.8 | Sources of heat | 3 |
| 4.2.9 | Electric and magnetic fields | 3 |
| 4.2.10 | Method of storing | 3 |
| 4.2.11 | Rodents | 3 |
| 4.2.12 | Issue from storage | 4 |
| 4.2.13 | Return to storage | 4 |
| 4.3 | Use and maintenance | 4 |
| 4.3.1 | Handling | 4 |
| 4.3.2 | Pressure | 4 |
| 4.3.3 | Temperature | 4 |
| 4.3.4 | Products conveyed | 4 |
| 4.3.5 | Environment | 4 |
| 4.3.6 | Bending radii | 4 |
| 4.3.7 | Torsional stress | 4 |
| 4.3.8 | Tensile stress | 5 |
| 4.3.9 | Vibration | 5 |
| 4.3.10 | Assembly of end fittings | 5 |
| 4.3.11 | Leakage | 5 |
| 4.3.12 | Electrical properties | 5 |
| 4.3.13 | Fixed installations | 5 |
| 4.3.14 | Moving parts | 5 |
| 4.3.15 | Marking/identification | 5 |
| 4.3.16 | Maintenance | 6 |
| 4.3.17 | Repairing of hoses | 6 |
| 5 | Additional recommendations for specific applications | 6 |
| 5.1 | General | 6 |
| 5.2 | Welding and gas-cutting hoses | 6 |
| 5.3 | Steam hoses | 6 |
| 5.4 | Hoses for the conveyance of foodstuffs and drinking water | 7 |
| 5.5 | Hoses for the conveyance of abrasive products | 7 |
| 5.6 | Hoses for the conveyance of corrosive or aggressive products | 7 |
| 5.7 | Hoses for the conveyance of flammable products | 7 |

| | | |
|--------|--|----|
| 5.8 | Automotive hoses | 8 |
| 5.9 | Fire-fighting hoses | 8 |
| 5.9.1 | General | 8 |
| 5.9.2 | Special points to be observed | 9 |
| 5.10 | Oil-industry hoses and hose assemblies | 10 |
| 5.10.1 | General | 10 |
| 5.10.2 | Special points to be observed | 10 |
| | Bibliography | 13 |