DIN EN ISO 5774:2023-07 (E)

Plastics hoses - Textile-reinforced types for compressed-air applications - Specification (ISO 5774:2023)

Contents

Page

European foreword ... **3**

Foreword ... **4**

Introduction ... **5**

1 Scope ... **6**

2 Normative references ... **6**

3 Terms and definitions ... **6**

4 Classification ... **7**

5 Couplings and end fittings ... **7**

6 Materials and construction ... **7**

7 Dimensions and tolerances ... **7**
7.1 Inside diameter, tolerances and minimum wall thickness ... 7
7.2 Concentricity ... 8
7.3 Tolerances on length ... 8

8 Physical properties ... **9**
8.1 Plastic compounds ... 9
8.1.1 Tensile strength and elongation at break of lining and cover ... 9
8.1.2 Resistance to ageing ... 9
8.1.3 Loss in mass on heating ... 9
8.1.4 Resistance to liquids ... 9
8.1.5 Hydrolysis test ... 9
8.2 Performance requirements on finished hoses ... 10
8.2.1 Hydrostatic requirements ... 10
8.2.2 Adhesion ... 10
8.2.3 Exposure to a xenon arc lamp ... 10
8.2.4 Bending test ... 10
8.2.5 Low-temperature flexibility ... 11

9 Frequency of testing ... **11**

10 Marking ... **11**

11 Recommendations for packaging and storage ... 12

12 Test report ... 12

Annex A (normative) **Hydrolysis test** ... **13**

Annex B (normative) **Type and routine tests** ... **15**

Annex C (informative) **Production acceptance tests** ... **16**

Annex D (informative) **Couplings and end fittings** ... **17**

Bibliography ... **18**