INTERNATIONAL STANDARD 575

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION•МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ•ORGANISATION INTERNATIONALE DE NORMALISATION

Textile machinery and accessories — Transfer cones — Half angle of the cone 4° 20′

Matériel pour l'industrie textile — Cônes de transfert — Demi-angle du cône 4° 20′

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FOREWORD

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 575 was developed by Technical Committee ISO/TC 72, *Textile machinery and accessories*, and was circulated to the member bodies in January 1977.

It has been approved by the member bodies of the following countries :

Belgium	Korea, Rep. of	Spain
Czechoslovakia	Mexico	Switzerland
France	Netherlands	United Kingdom
Germany	Philippines	U.S.S.R.
India	Poland	Yugoslavia
Ireland	Romania	
Italy	South Africa, Rep. of	

No member body expressed disapproval of the document.

This International Standard cancels and replaces ISO Recommendation R 575-1967, of which it constitutes a technical revision.

Printed in Switzerland

Textile machinery and accessories — Transfer cones — Half angle of the cone 4° 20′

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the dimensions and the tolerances of transfer cones, having a half angle of the cone of 4° 20′, which, after the cones for dyeing purposes have been removed from the dyed or bleached wound packages, are put in the packages for the purpose of re-processing. These transfer cones shall not be used for winding purposes. This International Standard also specifies the dimensions and tolerances of the gauges for checking the cones.

2 DIMENSIONS AND TOLERANCES

See the figures and tables on page 2.

Dimensions which are not specified are left to the discretion of the manufacturer.

The deviations from the nominal value 4° 20′ of the half angle of cone are limited by the tolerances for D, D_1, D_2 and L as indicated in table 1. They do not influence the practical use of the cones.

3 MATERIAL

The material may be impregnated or lacquered paper or suitable plastic.

The following details shall be specified :

a) treatment of surface;

b) number, size and location of perforations.

The distance between the ends of the cone and edges of the nearest holes, if any, shall be 16 ± 0,5 mm.

4 USE OF THE GAUGE

The inner dimensions of the cone are in accordance with this International Standard if the edge of the larger end of the cone, after it has been placed loosely on the gauge and then pressed home by hand, is between the tolerance marks.

The outer dimensions of the cone are in accordance with this International Standard if the edge of the larger end of the cone, after it has been placed in the gauge without forcing, is between the tolerance marks.

5 CHECKING OF THE LENGTH OF THE CONE

To check the tolerances of the length of the cone, a suitable gauge for checking lengths, for example a slide-gauge, has to be used. The gauges shown cannot be used for this purpose.

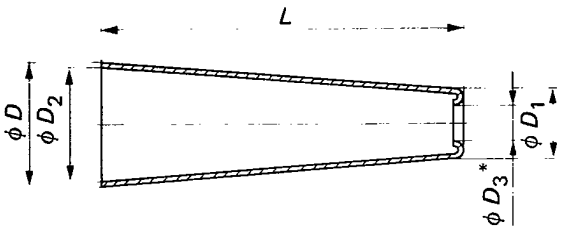

FIGURE 1a) — **Non-perforated cone**

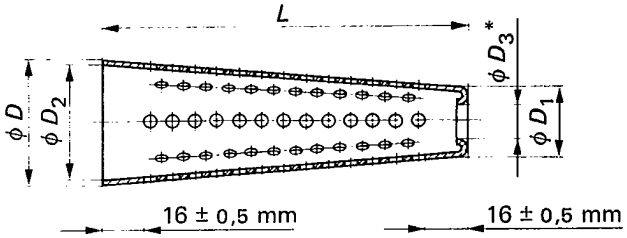

FIGURE 1b) — **Perforated cone**

TABLE 1 — **Cones**

Values in millimetres

D	Admissible deviations	D_1	Admissible deviations	D_2	Admissible deviations	D_3* min.	L ± 1,5
57	0 −0,5	33,4	0 −0,5	52,3	± 0,25	22	155
61				56,3			180
79,5	0 −0,6	55,9	0 −0,6	75,5	± 0,3	40	155
83,5				79,5			180

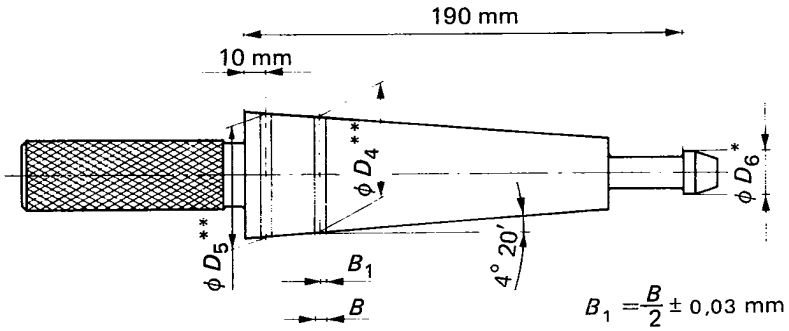

FIGURE 2a) — **Gauge I, for checking the inner dimensions**

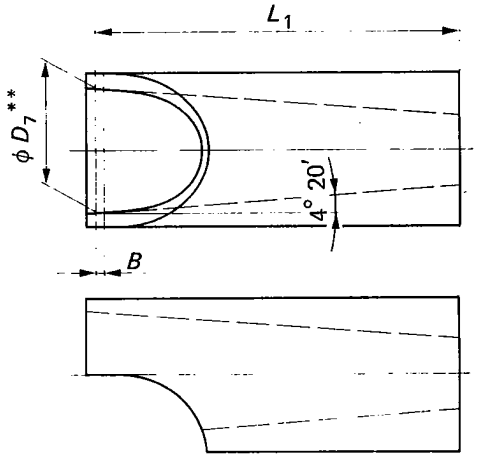

FIGURE 2b) — **Gauge II, for checking the outer dimensions**

TABLE 2 — **Gauges I*****

Values in millimetres

D_4**	D_5**	D_6* h 9	B ± 0,03
52,3	56,3	22	3,3
75,5	79,5	40	4,0

TABLE 3 — **Gauges II*****

Values in millimetres

D_7**	L_1	B ± 0,03
57	155	3,3
61	180	
79,5	155	4
83,5	180	

* In certain cases dimensions D_3 and D_6 have to be agreed upon between the parties concerned in relation to the wall thickness.

** The tolerances of the cone diameters of the gauge, measured at any distance from the ends, shall be j_s6 (see ISO/R 286, *ISO System of limits and fits — Part 1 : General, tolerances and deviations*, page 23).

*** The cones may be checked either using gauge I or using gauge II, but the method of checking using gauge I is preferred.