

INTERNATIONAL  
STANDARD

**ISO**  
**10459**

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**Textile machinery — Dyeing and finishing  
machines — Designation of operating  
ranges of component parts**

*Matériel pour l'industrie textile — Matériel de teinture et de finissage —  
Désignations pour des gammes d'opérations pour éléments de machine*



Reference number  
ISO 10459:1992(E)

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 10459 was prepared by Technical Committee ISO/TC 72, *Textile machinery and allied machinery and accessories*, Sub-Committee SC 4, *Dyeing, finishing and allied machinery and accessories*.

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# Textile machinery — Dyeing and finishing machines — Designation of operating ranges of component parts

## 1 Scope

This Standard gives designations for the recommended operating ranges for component parts of dyeing and finishing machines. The parts covered are those which operate under dry or wet conditions or in steam, and which either come into contact with the fabric or are positioned within 100 mm of the fabric.

## 2 Operating ranges

See table 1.

Table 1

Operating range		Moisture content of fabric %	Relative humidity of ambient air %	Ambient temperature °C	pH range
Term	Designation				
Dry range	A	< 20	< 80	≤ 60	—
	2			> 60	
Wet range	B	> 20	> 40	< 60	6 to 8 <sup>1)</sup>
	2				2 to 12 <sup>2)</sup>
Steam range	C	> 20	> 80	> 95	6 to 8 <sup>1)</sup>
	2				2 to 12 <sup>2)</sup>

NOTE — For operating ranges which are not specified, special arrangements should be agreed between manufacturer and user of component parts.

1) Neutral range.

2) Acid and lye range.

### 3 Designation

The designation of the operating range for a component part of a dyeing and finishing machine shall include the following information in the order given:

- a) "operating range";
- b) reference to this international Standard (i.e. ISO 10459);
- c) code designation.

#### EXAMPLE

Designation for a wet operating range with code B2:

**Operating range ISO 10459 - B2**

### 4 Marking

The component part should be marked with the reference to this International Standard and the code designation specified in clause 2.

#### EXAMPLE

**ISO 10459 - B2**

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