



Rubber or plastics covered rollers — Enquiries and orders — Recommendations for technical information to be supplied by purchaser

In 1979 Technical Committee ISO/TC 45, *Rubber and rubber products*, agreed to progress a request by Yugoslavia to issue a document listing the essential information required by the roller covering manufacturer. This was to ensure the purchaser was supplied with a product as suitable as possible for the intended application. A draft was then prepared taking account of the technical terms used in a number of countries. The draft was discussed by Working group 11, *Miscellaneous rubber products*, of TC 45 in 1980 and the recommendation made that it should be published as an ISO Technical Report type 3. The draft was subsequently balloted within TC 45 as a draft proposal for a Technical Report. After amendment, as a result of the comments received, TC 45 approved the issue of the document as a type 3 Technical Report.

Contents

	Page
0 Introduction	2
1 Scope and field of application	2
2 References	2
3 Roller application	2
4 Roller design and construction	3
5 Service characteristics	5
6 Other specific requirements and other relevant information	7

0 Introduction

This Technical Report specifies the essential information required by the roller covering manufacturer.

Covered rollers are cylindrical cores, usually made of metal upon which a covering of rubber or plastics is bonded. The covering specification is made for a particular application. The rollers are made in a wide variety of sizes and the covering will vary in hardness, type of material and surface treatment depending upon their intended use.

The function of the roller together with the conditions under which it has to operate, determine its size and structure as well as the physical and chemical properties of the covering material. This document lists most of the essential information required to establish the most serviceable and durable roller covering. It should serve as a basis for questionnaires to be completed by a roller customer in connection with an enquiry or order.

Not all questions are pertinent to every roller application. Only questions relevant to the application need be answered. Different industries would ideally require individual compilations. Roller manufacturers have or may elaborate from the items below different lists of queries for different industries or types of machinery.

NOTE — If different terms are applied in English and American usage, both terms are given, in the format English term/American term.

1 Scope and field of application

This Technical Report specifies most of the information which may be required by a manufacturer from a customer in order to determine the most suitable roller covering for a particular purpose.

2 References

ISO 6123/1 to 3, *Rubber or plastics covered rollers — Specifications —*
Part 1 : Requirements for hardness.
*Part 2 : Surface characteristics.*¹⁾
*Part 3 : Dimensions and dimensional tolerances.*¹⁾

3 Roller application

3.1 Machine in which the roller is used :

- a) branch or type of industry;
- b) function of the machine or process;
- c) machine manufacturer :
 - 1) type,
 - 2) year of construction;
- d) roller position on machine.

3.2 Function of the roller :

for example suction, squeezing, guiding, carrying, driving, spreading, drawing, inking, engraving, embossing.

3.3 Products carried :

- a) nature of product carried by or in contact with the roller, for example fabric, paper, sheet metal, timber, etc;
- b) thickness of product (if applicable);
- c) temperature of product.

¹⁾ At present at the stage of draft.