

TÜRASAS ESKİŞEHİR	TÜRASAS TECHNICAL INFORMATION	Yürürlük Tarihi:12.12.2003		T.B. 2163	
		Tadilat	E		
		Tarih	01.09.23		
		İmza	dated 16.08.23 letter E.146616		

KONU: MARKING AND PACKAGING

REFERANS:

## 1. SCOPE :

This technical information covers issues related to marking and packaging of various materials used in manufacturing, maintenance and repair of rolling stocks.

## 2. REQUIREMENTS

### 2.1. MARKING :

**2.1.1.** Unless otherwise indicated on the technical drawings of the materials, there has to be permanent marking made by molding, laser or chemical etching methods which is located to does not effect the function and material specs of the part.

**2.1.2.** Parts which are not suitable for permanent marking have to be labeled in the manner that they won't be erased, ripped or affected by climatic conditions.

**2.1.3.** For the parts which are not physically suitable for marking (i.e. small parts), marking labels have to be stuck to the packages.

**2.1.4.** Marking should be like that:

Name of firm - Quality of material- xxx-yy-zzz  
xxx: consecutive and non-recurring charge number  
yy: last two digit of the year  
zzz: part sequence number

### 2.2. PACKAGING:

**2.2.1.** Materials will not be affected by environmental and climatic conditions ( rain, wind, snow etc.).To prevent possible damages during the shipment and storage, materials has to be wrapped by air bubbled nylon with proper or appropriate thickness and placed in boxes, thus the machined surfaces will not contact each other.

**2.2.2.** Packaging boxes of the materials to be delivered has to be made by durable materials such as wood, petroleum derived materials, etc.with appropriate thickness and quality.

**2.2.3.** Weight of boxes within products has to be 400-500 kilograms. Choosing the materials of the boxes, it has to be considered that 4 boxes will be put on top of each other.

**2.2.4.** Boxes have to be produced in a manner that not affected by environmental and climatic conditions ( rain, wind, snow etc.) and not damaged during the shipment and storage. Boxes has to be banded by durable tape band to prevent disintegration of materials.

**2.2.5.** There has to be pallets under the boxes to carriage with forklift.

**2.2.6.** Marking data, name of material, number of order and technical drawing, quantity of parts in the box has to be indicated in a manner not affected by climatic conditions. The list of these information and marking data will be also submitted with dispatch note or invoice for each box.

Prepared By	TÜRASAS / ESKİŞEHİR	Date	3.11.2011	Sayfa	1 / 2
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**KONU: MARKING AND PACKAGING**

**REFERANS:**

**2.2.7.** All holes and threaded surfaces of parts that are open to the atmosphere have to be protected by closing with plug or plastic cover.

**2.2.8.** Machined surfaces, trunnions, etc. that are open to the atmosphere on the parts will also be packed with a suitable material against corrosion and mechanical impacts.

**2.2.9.** Parts which are heavier than 500 kilograms and not suitable for packaging, have to be delivered with providing lifting jig/fixture for crane.

**2.2.10.** In case of missing or inappropriate packaging and/or acceptance documents, products will be given back to firm with a signed proceedings explains the inappropriate situation, without any acceptance. Delay penalty will be applied if the returned products delivery again to TÜRASAS after the delivery time specified in the contract.

### **3. MISCELLANEOUS**

**3.1.** For procurement of rubber materials, requirements of technical information T.B. 2112 shall be met.

**3.2.** For procurement of fasteners, requirements of technical information T.B. 2164 shall be met.

### **ANNEX**

T.B. 2112

T.B. 2164

Prepared By	TÜRASAS / ESKİŞEHİR	Date	3.11.2011	Sayfa	2 / 2
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**SUBJECT: SPECIFICATIONS FOR MARKING AND PACKAGING OF RUBBER COMPONENTS****REFERENCE:****1. SUBJECT:**

This technical data covers the specifications of marking and packaging requirements of every type of rubber material TÜRASAS demands.

**2. SCOPE:**

This technical information is a kind of annex of the main technical specifications and the main technical datas that are used for procuring rubber materials. This technical shall be deemed as a supporting document provided that there are defined special terms in other documents about marking and packaging.

**3. MARKING RUBBER MATERIALS:**

The following information shall be on each manufactured rubber element as an easy-reading and nonerasable engraving or embossed writing or if not possible -due to impossibilities related to the shape of the element- on the labels on packaging:

- Trade name or abbreviation or registered trademark of the Contractor,
- Sign and number of the relevant standard,
- Type of the rubber element,
- Last two digits of manufacturing month and year,
- Batch number

Supposing that marking is labelled, following information shall be on the labels in addition,

- Stocking requirements,
- Due date of the element,
- Amount of the element in package,

**4. PACKAGING OF RUBBER MATERIALS:**

4.1. Rubber elements shall be delivered in cardboard boxes, corrugated board boxes or wooden boxes. The same size, type, class and sort of elements shall be in boxes.

4.2. Rubber elements shall be packed in airtight boxes and protected from draughts.

4.3. Rubber elements shall be wrapped in a manner that they shall be protected from stress, pressure and other deformations. (For example; line wrapping around materials is not a suitable way of fastening since it causes stress on materials).

4.4. There shall not be copper, creosote etc. chemicals in material structure of package material since they are harmful to rubber elements. Rubber elements shall not contact with metals like copper, manganese, etc. Provided that they are to be stocked in the same boxes, separator materials like cardboard or polyethylene shall be placed among them. Plasticized films shall not be used in separating and wrapping.

4.5. The best dusting powders are chalk, soapstone and mica. There shall not be any additives or foreign substances that are harmful to rubber materials in the mentioned powders.

<b>TÜRASAS</b> <b>ESKİŞEHİR</b>	<b>TECHNICAL DATA</b>	Effective Date:12.12.2003		<b>T.B. 2112</b>	
		Modification	A		
		Date	10.09.2024		
		Signatura	E. 20547		

**SUBJECT: SPECIFICATIONS FOR MARKING AND PACKAGING OF RUBBER COMPONENTS**  
**REFERENCE:**

4.6. During packaging, the contacting of rubber materials with liquid or semi-solid materials (especially solvents, volatile substances, oils and greases, etc.) shall be prevented.

4.7. Packaging shall be made in the environments in which the temperatures under 25°C and relative humidity rate is not more than 65 %. Being light proof and ultraviolet resistant of package material is the reason for preference.

4.8. Should the rubber elements are delivered in wooden boxes to the Acceptance Department, the box wood shall be in correct thickness and quality. The boxes shall not be effected from environment and climate conditions and shall not be damaged during handling, carrying and stocking. The boxes shall be wrapped with resistant tape from outside. The markings defined in the Article 3 shall be on the boxes. The boxes to be carried by hand shall not be more than 18 kilograms. The boxes which are more than 18 kilograms shall be able to be handled and carried by forklift from the bottom.

4.9. In case of delivering the rubber elements different than defined above to the Acceptance Department, *TÜRASAS* shall reject them. Should the returned componets are delivered after the period defined in the Agreement, a delay penalty defined in the Agreement shall be realized. The Contractor shall have no right of demanding any rights for the delays due to the packaging.

Prepared by:	<i>TÜRASAS/ ESKİŞEHİR</i>	Date:	28.10.2009	Sayfa	2/2
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TÜRASAS ESKİŞEHİR	TECHNICAL DATA	Effective date:12.12.2003		T.B. 2164	
		Modification	A		
		Date	10.09.2020		
		Signature	E. 20547		

SUBJECT: PACKAGING OF FITTINGS

REFERENCES:

#### 1. SUBJECT :

This technical data covers the specifications of packaging of the various fittings to be used in manufacturing, repairing and maintaining of rolling stocks at TÜRASAS

#### 2. DEMANDS

2.1. Packaging materials to be used shall be robust so that the handling will be secure.

2.2. Packaging materials shall be robust enough to protect the components against mechanical effects such as crashing, smashing etc. during handling and storing.

2.3. Material packages shall be wrapped with optimum thickness of nylon in a manner that the materials will not be affected by rain, wind, snow and environmental conditions, will not be damaged during handling and storing.

2.4. All of the components shall be wrapped in a good manner to be stored. There shall be basic sizes and number of components inside on every package.

2.5. There shall be information of supplier name, material name, relevant standard, order number and if available drawing number, number of components in the box, production date (in a manner that the mentioned information will not be affected by environmental conditions) on the packages. Not only the list of the mentioned information in the previous sentence but also the list of consisting marking information shall be delivered for every box with the freight bill.

2.6. In case of the deficiency on the packaging of the components and / or missing and / or non proper documents of the components delivered to the Acceptance Department, this situation shall be recorded with a signed official report, and without accepting the components, they will be returned to the Contractor. Should the returned componets are redelivered after the period defined in the Agreement, a delay penalty defined in the Agreement shall be realized.

2.7. Packages to be carried by hand shall not be more than 15-20 kilograms. Provided that the components are placed in boxes, gross weight shall not be more than 400-500 kilograms. Boxes wrapped with resistant tape shall be able to be handled by forklift from the bottom.

Prepared by:	TÜRASAS/ ESKİŞEHİR	Date:	08.12.2011	Page	1 / 1
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