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| TÜRASAS ESKİŞEHİR | TÜRASAS TECHNICAL INFORMATION | Yürürlük Tarihi:12.12.2003 | | T.B. 2163 | |
| | | Tadilat | E | F | |
| | | Tarih | 01.09.23 | 03.02.26 | |
| | | İmza | dated 16.08.23 letter E.146616 | dated 22.01.26 letter E.303414 | |

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.

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| Prepared By | TÜRASAS / ESKİŞEHİR | Date | 3.11.2011 | Sayfa | 1 / 2 |
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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.

2.2.11. For parts subject to protective lining or painting, painted surfaces shall be packaged in such a way that they do not come into contact with each other throughout all stages of manufacturing, storage, transportation, and installation, in order to preserve the integrity of the coating and prevent surface damage. Within this scope, adequately thick separating and protective materials (such as protective film, foam, cardboard, felt, etc.) shall be used between painted surfaces, and necessary measures shall be taken against friction, impact, corrosion, and scratching during transportation and storage. The packaging method shall be appropriate to the geometry and weight of the parts and shall not cause deformation or damage to the painted surfaces or the coating.

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

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| Prepared By | TÜRASAS / ESKİŞEHİR | Date | 3.11.2011 | Sayfa | 2 / 2 |
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