



# USEFUL INFORMATION TO MAINTAIN STOCK MATERIALS



MatSTOCK01r0\_E

**To all our customers**

## 1 – PURPOSE AND APPLICATION

This procedure has the purpose to provide the criteria to guarantee that the articles are not changing their original properties during the time. The rubber articles cannot be considered as “perishable” because they have been produced with material and special procedures that can guarantee their life over the time; anyway each finished product kept in stock is subjected to aging or better there is a slow falling of some of the properties. This is the reason why, it is necessary that the maintenance conditions have been studied and realized in order to reduce these potential changes. These regulations can be applied to all rubber products we are producing.

## 2 – PACKING PROPERTIES

DUCI SRL for packing operations is using the following materials:

- Polyethylene bags (LLDP) for single articles loose inside and for protecting from dust contamination inside the cartoon boxes
- Cardboard boxes in different sizes and thickness considering the properties and size of the articles to be packed

There are not particular shrewdness for the boxes, which have the pur pose to protect the material from dust and light and have to facilitate the movement and the location in the shop: they have not been studied to resist to water or heavy cargos. Our boxes are closed with neutral adhesive tape.

## 3 – STORE AND MAINTENANCE ENVIRONMENTAL CONDITIONS

The store conditions can be described as follows:

- Our parts must be stored only with proper packing
- While taking only part of the pieces out of the original packing, the remaining q.ty must be left in the original conditions and the packing has to be re-closed to avoid that dust or foreign bodies is coming in contact with the pieces. A delayed light exposure has to be avoided.
- The pieces that have been taken out, if not used, have to be put in their original packing so that they are not losing their identification elements. Of course their layout should be the same as stated in the label.
- The boxes can be pile up to reduce the covered space, but of course it is imperative that the weight on the first box is not too excessive: the walls cannot be strained otherwise they are going to sag. Considering the weights, we are suggesting to put max 4 boxes on the first one.



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- The boxes have to show clearly the identification elements we are sticking: the side of the box where the label is stucked should be positioned externally in order to allow an easy and simple reading.
- The handling of the stock should follow the FIFO rule: the position of the boxes and the loading and downloading of the boxes should have to be carried out in such a way that can allow people to use first the oldest to the newest so that a delayed stay of the boxes can be avoided

The environmental conditions are very important to limit the aging of the pieces stocked. It is necessary to adapt the stocking conditions considering the following criteria:

1. The room temperature should not be warmer than 30°C. Cold temperatures can be the cause of embrittlement, helping the issue of breaking and tearings, while warm temperature can modify the mechanical properties, including the hardness, with warm temperatures aging is faster.
2. The boxes must be kept in dry areas, without water, steam, oils, sparks or anything else that could damage the packing and its content : in spite the compounds used for the production of our components (excepted some types especially studied for other applications) have a good resistance to oils and solvents, at least in the maintenance phase has to be avoided their presence.
3. The boxes should not be stocked in areas rich of ozone: therefore the closeness with electrical motors, quartz and neon lamps has to be avoided. Ozone is an oxidant causing cracks.
4. Environmental humidity has not to exceed certain values that may cause moistness of the boxes, that will bring mechanical resistance lost: indicatively we suggest not to exceed 70% of the related humidity.
5. The boxes have to be stocked far from warm areas, as radiators or steam pipes or warm fluids.
6. Direct light on the pieces in stock has to be avoided: the boxes have to be kept well closed and kept in dark rooms.