

Turbomachinery & Process Solutions

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<Requirements for materials with shelf- life or perishable>

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Document Revision Chart

The following chart lists the revisions made to this document tracked by version. Use this to describe the changes and additions each time this document is re-published. The description should include as many details of the changes as possible.

#.#	Section Modified and Revision Description	Date	Author
1.0	First Issue	30 Dec 2009	S. Grillo
1.1	Document revised since expired: i) updated applicability at par 1.0 (GE O&G > BHGE TPS NP); ii) added the following wording at par 2.0 <i>“As a reference, but not limited to, the following items: gaskets, o-rings, parts containing rubber, lubricants, adhesives, sealants, paints, solvents, diluents, oils, chemicals shall be considered perishable items”</i> : iii) Removed Annex A	18 Feb 2019	G. Ardizzone
--	Document rebranded (BHGE GE Company > Baker Hughes)	08 April 2020	Carolina Biondi

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1.0 Purpose

This document is part of the Baker Hughes TPS Nuovo Pignone standard purchase order and adds special requirements for all those materials, purchased, with properties (chemical, mechanical, electrical, etc.) deteriorating with time and not necessarily intended for immediate use, but also for storage (usually on shelves).

The application of this document is necessary to comply with Customer-imposed shelf life requirements.

2.0 Applicability

This document is applicable to all items with an expiration date as defined by the Manufacturer (i.e. Supplier).

For the purpose of this document, these items are called “limited shelf-life”, “shelf-life” or “perishable” items.

This document does not apply to the items after they have been used or assembled.

As a reference, but not limited to, the following items: gaskets, o-rings, parts containing rubber, lubricants, adhesives, sealants, paints, solvents, diluents, oils, chemicals shall be considered perishable items.

Suppliers apply this document to all those items that, based on their knowledge, have a limited useful life.

3.0 References

Following documents are listed for reference:

ITN 84610 – Pressed and joined O-ring gaskets

ISO 2230 – Rubber Products – Guidelines for Storage

4.0 Definitions

Limited shelf-life or “**shelf-life**” or “**perishable**” items: items for which manufacturer declares (or industry requires) an expiration date.

Total shelf life is the period of time from the date of manufacture to the warranted expiration date of the material.

Remaining useful Life is the period of time between the current date and the expiration date of the material.

5.0 Instructions

5.1 Requirements

For all materials in scope of this document, Supplier shall ensure that the following shelf-life information are clearly marked on each label or indented on each item:

- Date of manufacture and the expiry date; or
- Date of manufacture and the manufacturer's warranted shelf-life period; or
- Expiry date and the manufacturer's warranted shelf-life period; or
- All of the above.

If products are provided in a "kit" the shelf life of each item in the kit must be clearly marked or indented with the required shelf-life data indicated above.

When delivered at the designated place of delivery, such materials must be brand new, with remaining useful life $\geq 90\%$ of the total shelf life. Baker Hughes TPS Nuovo Pignone shall be entitled to reimbursement (or offset) from Supplier for materials received that do not conform to the conditions specified above. To meet this requirement, it is strongly recommended that the shipped goods are always part of the latest available pack or batch of production.

Storage procedure for such materials must be indicated on the product label.

5.2 Responsibility

It's Suppliers responsibility to implement all necessary actions to comply with the requirements of section 5.1.