STORGAE PROCEDURE OF EALSTOMER

Rev	Reason of Change	Date	Made By	Reviewed By	Approved By	Status
2	Stacking Note added under clause 2.0	25.11.2019	RKS	MN	AS	Released

STORGAE PROCEDURE OF EALSTOMER

1.0 SCOPE

This Specification covers the storage and shelf life limitations for Sara Sae custom molded elastomer parts.

2.0 STORAGE CONDITIONS

Adequate precautions must be taken to ensure the elastomer parts are protected from the effects of the environment.

The following table provides guidelines of storage conditions:

	UNACCEPTABLE	AVERAGE	EXCELLENT
Heat	Over 100°F(38°C)	Up to 100°F(37°C)	77°F to 70°F (25°C to 21°C) (Air Conditioned)
Light	Direct sunlight, Bright shade (daylight)	Indirect-Indoors away from windows	Boxed and/or covered - total darkness
Ozone	Proximity to Electric motors Arc welders, etc.	Away from sparking electrical equipment	Special protective covering
Stress	High stacks	Short stacks	Separate compartments
Humidity	Over 75%	Up to 65%-75%	Below 65%

Stacking Note: Stacking of non-metallic seals shall up-to seven layers maximum of same size.

3.0 STORAGE LIFE

3.1 It is necessary that inventories of elastomer parts to rotated to assure that they are used within a reasonable time period following its manufacture (cure) date. The storage times listed in the table below are based on average storage conditions as defined above.

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3.1.1 Sell by date - This is the "Maximum Sara Sae Storage Life" of the part. This time period is based on the maximum total storage life minus 24 Months. Elastomers parts that are not hipped to a customer prior to the "Sell by" date will be scrapped.

3.1.2 Expiration date - This date represents the "Maximum Total Storage Life" of the elastomer. This date can be calculated by adding the appropriate time period to the cure date, or by adding two (2) years to the "self by date". SARA SAE recommends that the customer either put the elastomer in service prior to this date or scrap the part if it is in storage past this date.

This time period is divided into two stages as follows:

The following table provides recommended storage time based on average storage conditions:

RUBBER AND ELASTOMERIC	COMPONENTS	Sell by Date Max. Sara Sae storage life	Expiration Date Max. total storage life
Type of component	Type of elastomer	Storage time after cure date	Storage time after cure date
Spherical BOP packing elements	Nitrile	4 years	6 years
Spherical BOP packing elements	Natural rubber	4 years	6 years
BOP ram block rubbers	Nitrile	4 years	6 years
BOP ram block rubbers	Hydrogenated Nitrile	5 years	7 years
BOP door seals	Nitrile	3 years	5 years
BOP door seals	Hydrogenated Nitrile	4 years	6 years
Stripper rubbers	Natural rubber	3 years	5 years
Spherical BOP seals	Nitrile	3 years	5 years
Seal kits for ram and spherical BOP	Nitrile	3 years	5 years
V-packing and molded lip seals	Nitrile	4 years	6 years
Pulsation dampeners		4 years	6 years