

ALROSE PRODUCTS LTD
(Incorporating British Gas Springs)

JULY 2016

Product Identification Data Sheet

Product: Gas Springs
Part Numbers/Description: All part numbers and designs

SECTION 1 – MANUFACTURER INFORMATION

Alrose Products Ltd
52 Papyrus Road
Werrington
Peterborough
PE4 5BH

Telephone Number: 01733 570008

SECTION 2 – HAZARDS IDENTIFICATION

Under normal conditions of use, the gas spring is sealed and presents no hazard

SECTION 3 - INGREDIENTS

Steel	Carbon steel EN1A, stainless steel AISI 305, AISI 316L Hard Chrome Plated. RoHs compliant
Aluminium	2011T3
Oil	Mineral Oil, Synthetic Oil (HF46 - Food industry approved).
‘O’ rings & seals	Nitrile rubber
Gas	N ² - High Purity
Black Plastic Coating	

SECTION 4 – FIRST AID MEASURES

Steps to be taken if material is released or spilled:	If product is ruptured, Oil may cause irritation to skin and eye contact should be avoided.
Skin Contact	Wash with soap and water.
Eye Contact:	Flush thoroughly with water.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media:	All Extinguishants allowed
Special Fire Fighting Procedures:	As in any fire, self-contained breathing apparatus should be used.
Unusual Hazards:	Small quantities of irritating and/or toxic and/or asphyxiant gases may be released during a fire. Sources of these gases are in very small quantities in each gas spring.
Hazardous Combustion Products:	Oil may produce Carbon Monoxide, Metal Oxides and Elemental Oxides. Only a small amount of oil is present in each spring.
Conditions under which ignition will occur:	Exposure to fire has never caused any explosion. Non-flammable.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Soak up Oil with absorbent materials as appropriate.

SECTION 7 – HANDLING AND STORAGE

Handling and Storage Information:	Do not dent or pierce the spring. Store in cool, dry, ventilated area, preferably with rod down.
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SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Under normal conditions of use, no protection is required.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	% By Weight
Hexavalent Chromium*	<2
Zinc*	<3
Cadmium*	<0.0001
Lead*	<0.05

- Dependent on gas spring specification

Physical Data of Gas – High Purity N²

Boiling Point:	-196°C	Solubility in Water:	20mg/l
Relative Density (Gas)	0.97 (air = 1)		
Appearance and Odour	Colourless, Odourless Gas		

Physical Data of Lubricating Oil

Boiling Point:	>316°C	Flash Point:	>177°C
Relative Density 15/4C:	0.876	Vapour Density	>2
Solubility in Water:	Negligible		
Appearance and Odour:	Light Amber liquid with a mild odour, Vegetable Oil - totally non-toxic		

Physical Data of Rubber – Nitrile

Specific Gravity:	1.31	Solubility in Water:	Negligible
Appearance and Odour:	Black material with solid appearance and characteristic odour		

SECTION 10 – STABILITY AND REACTIVITY

No volatile substances.
Product is stable under normal conditions.

Rubber components may degrade over 120°C. depending on material grade.
Over 120°C special seals used. Below -10°C special seals used

SECTION 11 – TOXICOLOGICAL INFORMATION

N/A

SECTION 12 – ECOLOGICAL INFORMATION

To protect the environment waste must be disposed via an authorised waste disposal contractor to an approved waste disposal site.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal: This material is considered to be recyclable.
Dispose of according to local regulations.

Or send to Alrose Products Ltd for safe disposal.

SECTION 14 – TRANSPORT INFORMATION

Gas spring must show Caution label stating: **Caution. Do not open high pressure**

IATA Transportation Information:

Shipping Name:	Nitrogen, compressed
Hazard Classification:	Non-Flammable Gas
IATA Packing Group:	200
Labels Required:	Air Shipment, UN1066

SECTION 15 – REGULATORY INFORMATION

N/A

SECTION 16 – OTHER INFORMATION

None