Product Data

NUCLEOL G121

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Radiation Resistant Grease

DESCRIPTION

Castrol Nucleol G121 is a radiation resistant grease based upon a high viscosity mineral oil with an inorganic thickener system, which gives outstanding thermal and radiation stability.

APPLICATION

Castrol Nucleol G121 also provides a high level of corrosion protection for components exposed to hostile environments. Due to the high viscosity of the base oil of Nucleol G121 it gives good performance in low speed bearings but is not suitable for use at moderate or high speeds. Nucleol G121 is ideally suited for the lubrication of control rod mechanisms.

Nucleol G121 comfortably exceeds the UKAEA Schedule I requirements for radiation resistance and is fully approved for use within nuclear installations.

FEATURES	BENEFITS
♦ Stable at high temperatures	♦ Long life at high temperatures
♦ Stable at high radiation doses	♦ Long life at high radiation doses
♦ Very low volatility	♦ Long life at high temperatures

♦ Provides maximum corrosion protection for equipment during storage and in humid conditions, such as those encountered during reactor commissioning

All reasonable care has been taken to ensure that the information contained in this publication is accurate as at the date of printing. It should be noted however that the information above may be affected by changes occurring subsequent to the date of printing in the blend formulation or methods of application of any of the products referred to or in the requirements of any specification approval relating to any such products.

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TYPICAL PHYSICAL CHARACTERISTICS

Appearance	Amber/brown, soft grease
Worked Penetration	265
Drop Point, ºC	Indefinite
Base Oil Viscosity @ 40ºC, cSt	475
Thickener Type	Inorganic
Radiation Stability (after 10^9 rads)	
Penetration Change	+56
Drop Point Change, ºC	NIL
Loss by Evaporation (modified ASTM D972)	
After 400 hrs at 150ºC with CO_2 flow of 1 litre/min	1.5% Loss

Nucleol G121 meets the Schedule I volatility limit of 4% after 400 hrs at 150ºC with CO_2 flow of 1 litre/min.

Health and Safety information sheets are available for all Castrol products from the address below:
Castrol (U.K.) Limited, Pipers Way, Swindon, Wiltshire SN3 1RE, England, Telephone: Orders/Enquiries (08459)645111, Technical Enquiries (01793)452111, Fax (01793)486083

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