

# Castrol lubricants

## Product information

### CASTROL NUCLEOL S203

#### INTRODUCTION

This material is basically a softer composition version of Nucleol S202R, containing a lighter viscosity base oil which allows the material to be more readily pumpable for ease of application. It is specifically designed for the protection and lubrication of wire strands wound about the concrete nuclear pressure vessel for prestressing purposes. The material is designed to be stable for up to 25 years in air at a temperature not exceeding 65°C.

#### PHYSICAL CHARACTERISTICS

			<u>Test Method</u>
Relative Density at 15°C	-	0.870-890	- IP.190
Drop Point	-	65°C Min.	- IP. 31
Flow Test at 40°C	-	10% Max. at 5 Hrs	- BS.2499
Penetration Worked	-	320-370	- IP.50
Water Content	-	0.1% Max.	- IP.74
Copper Strip Corrosion Test	-	No Staining after 3 hours at 70°C	- IP.112
Acidity	-	3.0% (OLEIC) Max.	- IP.31
Alkalinity	-	0.2% (KOH) Max.	- IP.31

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OXIDATION RESISTANCE

Pressure Drop (lbs)  
in 200 hours

- 15lbs Max. - IP.142

RADIATION RESISTANCE

- No softening or decomposition  
occurs up to  $2 \times 10^8$  rads.

ELECTROLYTIC CORROSION

- No current passes between S203 coated  
steel electrodes immersed in water  
when a voltage of 10 volts is applied  
for at least 1000 hours.

CRL BEAKER TEST (IP.153)

- An 0.005 inch coating gives a weight  
loss of less than 20mg after a period  
of seven days using standard EN2a  
steel panels.

2363/JP/RH

Health and Safety information sheets are available for all Castrol products and these are obtained from the address below.

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 above information 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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