

## PRODUCT DATA SHEET

### **Royal NLZ Compound** **No Copper, Lead or Zinc Anti-seize**



#### **PRODUCT DESCRIPTION:**

**Royal NLZ Compound** is specifically formulated for drill pipe, weight pipe as well as collars and may be used in a wide variety of operating temperatures. This special formula prevents metal to metal contact under severe operating conditions and provides protection against seizure, galling and breakdown. Its exceptional performance makes it easier for making breakouts and connections.

**Royal NLZ Compound** is an environmentally safe product that uses a unique combination of solid lubricants with no copper, lead or zinc and a proprietary extreme pressure additive to impart outstanding anti-seize and anti-wear properties to the product. This grease is doped with finely divided solid lubricants that will separate out, settle out, dry out or harden under storage as well as operations.

#### **KEY FEATURES:**

- Environmentally safe
- Does not contain lead, zinc or copper
- Meets and/or exceeds the performance requirements of the API Bulletin 5A2

#### **CUSTOMER BENEFITS:**

- Water resistance properties allow for use in wet conditions
- Excellent adhesive and cohesive properties
- Prevents against galling and seizures

#### **APPLICATIONS:**

Recommended in most applications where anti-seize compounds are needed like drill pipes, slides, flanges, studs, nuts, gaskets etc.

#### **PACKAGING:**

Drums and Pails

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### Typical Properties

Royal NLZ Compound		
Product Number	903SM	Test Method
Color	Black	Visual
Texture	Smooth , tacky	Visual
NLGI Grade	1	ASTM D 217
Worked Penetration	330	ASTM D-217
Drop Point , ° F	350	ASTM D 2265
Viscosity @ 40 C ,cSt	215	ASTM D 445
Viscosity @ 100 C ,cSt	14.8	
Viscosity @ 100 F ,SUS	1000	
Viscosity @ 210 F ,SUS	79	
Type of thickener	Lithium	-
Oil Separation	1.0	ASTM D 1742

Typical Properties are typical of those obtained with normal production tolerance and do not constitute essentially a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice.

#### Health and Safety:

When used for its intended application, this product is not expected to have any adverse health implications. For complete information on safe handling, as well as physical and chemical characteristics please refer to the Material Safety Data Sheet (MSDS) found on our website, [www.royalmfg.com](http://www.royalmfg.com), or call 918-584-2671. Do not use this product for purposes other than its intended use. Please be responsible to the environment when disposing of used product.