

Compulsory Specification for

**Replacement elastomeric cups and seals for hydraulic brake actuating cylinders for use in motor vehicles using non-petroleum base hydraulic brake fluid (service temperature 70 °C to 150 °C max)**

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DEPARTMENT OF TRADE AND INDUSTRY  
DEPARTEMENT VAN HANDEL EN NYWERHEID

No. R. 1216

23 December 2005

## STANDARDS ACT, 1993

COMPULSORY SPECIFICATION FOR REPLACEMENT ELASTOMERIC  
CUPS AND SEALS FOR HYDRAULIC BRAKE ACTUATING CYLINDERS  
FOR USE IN MOTOR VEHICLES USING NON-PETROLEUM BASE  
HYDRAULIC BRAKE FLUID  
(SERVICE TEMPERATURE 70°C TO 150° Max.)

I, Mandisi Mpahlwa, Minister of Trade and Industry, hereby under Section 22(1)(a)(i) of the Standards Act, 1993 (Act No. 29 of 1993), and on the recommendation of the Council of the South African Bureau of Standards, declare the specification contained in the Schedule to be a compulsory specification for Replacement Elastomeric Cups and Seals for Hydraulic Brake Actuating Cylinders for use in Motor Vehicles using Non-Petroleum Base Hydraulic Brake Fluid with effect from the date two (2) months after publication of this notice.



M Mpahlwa  
Minister of Trade and Industry

## SCHEDULE

### COMPULSORY SPECIFICATION FOR REPLACEMENT ELASTOMERIC CUPS AND SEALS FOR HYDRAULIC BRAKE ACTUATING CYLINDERS FOR USE IN MOTOR VEHICLES USING NON-PETROLEUM BASE HYDRAULIC BRAKE FLUID (SERVICE TEMPERATURE 70 °C TO 150 °C MAX.)

#### 1 Scope

This specification covers the requirements for replacement elastomeric cups and seals, whether in loose form, or assembled in parts, designed for use in hydraulically operated braking systems for motor vehicles using non-petroleum base brake fluid, as detailed in the *compulsory specification for hydraulic brake and clutch fluid* as published by Government Notice No. 128 (Government Gazette No. 4562) of 17 January 1975 (as amended from time to time).

Elastomeric cups and seals supplied by the original equipment manufacturers (OEM's) and of the same quality as the original equipment fitted to a new vehicle as offered for sale, are excluded from the requirements of clause 3 of this specification. Such products may be inspected by the Regulator at its' discretion.

#### 2 Definition

For the purposes of this specification, the following definition applies:

##### Cup or seal

Any cup or seal compounded from elastomer that is used in a braking system and that is in contact with non-petroleum base hydraulic brake fluid

#### 3 Requirements

**3.1** Elastomeric cups and seals for hydraulic disc brakes (service temperature 70 °C max.) shall comply with the requirements of SANS 205/ISO 6118, *Road vehicles – Elastomeric cups and seals for hydraulic disc brake actuating cylinders using a non-petroleum base hydraulic brake fluid (service temperature 70 °C max.)*.

**3.2** Elastomeric seals for hydraulic disc brakes (service temperature 120 °C max.) shall comply with the requirements of SANS 206/ISO 6119, *Road vehicles – Elastomeric seals for hydraulic disc brake cylinders using a non-petroleum base hydraulic brake fluid (service temperature 120 °C max.)*.

**3.3** Elastomeric cups and seals for cylinders for hydraulic braking systems (service temperature 120 °C max.) shall comply with the requirements of SANS 4928/ISO 4928, *Road vehicles – Elastomeric cups and seals for cylinders for hydraulic braking systems using a non-petroleum base hydraulic brake fluid (service temperature 120 °C max.)*.

**3.4** Elastomeric seals for hydraulic disc brakes (service temperature 150 °C max.) shall comply with the requirements of SANS 4930/ISO 4930, *Road vehicles – Elastomeric seals for hydraulic disc brake cylinders using a non-petroleum base hydraulic brake fluid (service temperature 150 °C max.)*.