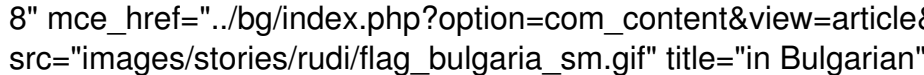

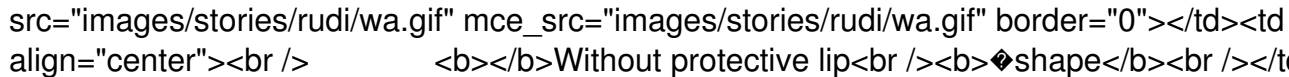
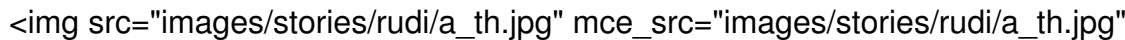

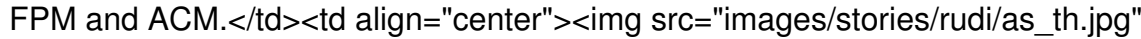


Automotive seals - Oil seals for axles

Radial shaft seals are used to seal rotary elements, such as a shaft or rotating bore. Common examples include strut seals, hydraulic pumps seals, axle seals, power steering seals, and valve stem seals. Early radial shaft seals utilized rawhide as the sealing element, and many elastomeric seal companies today once were tanneries. The advent of modern elastomers replaced rawhide, industry also added a garter spring which helps the sealing lip compensate for lip wear and elastomer material changes. The seal construction will consist of a sprung main sealing lip which has a point contact with the shaft. The point contact is formed by two angles, with the air side angle usually less than the oil side angle. Depending on the seal type these two angles are varied to create a pressure distribution at the seal contact point which has a steeper slope on the oil side of the seal. The shallower the slope on the oil side of the seal the wetter the seal will run. The spring is positioned such that axially the centerline of the spring is biased to the air side of the lip contact point. In order to exclude contaminants numerous types of dust lips or exclusionary lips may be used. Common elastomers are: FKM, ACM, NBR, HNBR, AEM. In order to resist wear the compounds' durometer (hardness) is typically 70 to 85 Shore A. A different seal design for similar applications is a rotating face seal. Freudenberg-NOK is currently the one of the major leaders in shaft seals, supplying shaft seals to all major OEM suppliers.

| http://www.rudi-2010.com/bg/index.php?option=com_content&view=article&id=7&Itemid=8 | |

	
Download in stock list for Corteco automotive seals here http://www.rudi-2010.com/files/oil_seals_CORTECO.pdf	
	

Type	Ref	Materail	Photo
Without protective lip	◆ shape	Generally from NBR, sometime from FPM and ACM.	
With protective lip	◆ shape	Generally from NBR, sometime from FPM and ACM.	
Metal without protective lip	◆ shape	Generally from NBR, sometime from FPM and ACM.	
Metal with protective lip	◆ shape	Generally from NBR, sometime from FPM and ACM.	

shape
</td><td align="center">Generally from NBR, sometime from FPM and ACM.</td><td align="center">
</td></tr><tr><td align="center"></td><td align="center">Metal, closed
 without protective lip
◆shape
</td><td align="center">Generally from NBR, sometime from FPM and ACM.</td><td align="center"> </td></tr><tr><td align="center"> </td><td align="center">Metal, closed
 with protective lip
CS shape
</td><td align="center">Generally from NBR, sometime from FPM and ACM.</td><td align="center"> </td></tr><tr><td align="center"> </td><td align="center">Oil seals for axles
◆BS shape
</td><td align="center">Generally from NBR, sometime from FPM and ACM.</td><td align="center">
</td></tr><tr><td align="center"></td><td align="center">Oil seals for axles
◆/BS shape
</td><td align="center">Generally from NBR, sometime from FPM and ACM.</td><td align="center"> </td></tr></table><p>{loadposition oil-seals}</p>