

Fluorine rubber

All products

Distribution:

Date: 8-1992

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Safety Regulation for Fluorine Rubber

Fluorine rubber is a very common material in shafts, seals and O-rings. When fluorine rubber is exposed to high temperatures (above 300°C 572°F) **hydrofluoric acid** (H₂F₂) can be formed. The hydrofluoric acid is very corrosive. Skin contact can result in a serious malignant ulcers. Splashes of hydrofluoric acid into the eyes will also cause severe corrosion damage. Inhalation of hydrofluoric acid vapor will damage the respiratory passages.

Special caution must be exercised when working with or on engines which have been subject to high temperatures (high temperatures caused by overheating from seizure or fire).



Always use gloves made of chloroprene rubber (gloves for treatment of chemicals) and safety goggles.



Treat the removed seals in the same manner as you would corrosive acid. All fragments - even ashes - can be strongly corrosive. Never use compressed air to clean.



Put the removed parts, fragments etc. in a glass jar which you seal and provide with adequate identification. Clean the gloves under running water before removing.

To identify all seals made of fluorine rubber is not a practical solution. The same type of seals (sometimes with the same part number) might have been subject to change in material specification in the course of running production and/or when there has been a change of supplier.

The following seals are, with a high degree of certainty, made of fluorine rubber:

Seals for crankshafts, camshafts, intermediate shafts in diesel engines as well as in gasoline engines. O-rings regardless of location. O-rings used as cylinder liner seals in diesel engines are **always** made of this material.

Please note that seals and O-rings, which have not been exposed to these high temperatures, can be treated normally.

