

# K.S.P. ■ 160 nonVOC / 204 nonVOC / 204 VCI / 246 VCI

nonVOC corrosion inhibiting oils

## The benefits at a glance

- Free of acids, resins and silicones
- Reliable corrosion protection
- VOC-free according to 31. BImSchV
- Excellent material compatibility
- Easy and economical processing
- High flash point
- Additional protection by VCI (K.S.P. 204 VCI and 246 VCI)
- Drain-off inhibited (K.S.P. 204 VCI and 246 VCI)
- Easy removal of the protective film



## Properties

**Rivolta K.S.P. 160 nonVOC, 204 nonVOC, 204 VCI and 246 VCI** are highly effective, silicone-free corrosion protection products and VOC-free in accordance with the 31st BImSchV (VOC Regulation).

**K.S.P. 160 nonVOC** forms an ultra-thin, highly effective molecular film on components. This virtually dry, barely perceptible film prevents rust and provides reliable temporary corrosion protection. It has excellent dewatering properties (it infiltrates water and displaces moisture), good water separation capacity and is therefore suitable for immersion baths and rinsing applications with increased water ingress.

**K.S.P. 204 nonVOC** is an acid- and resin-free, low-viscosity corrosion protection oil characterised by high surface activity, creepability and good water-repellent properties. It is very economical thanks to the formation of a very thin, highly effective protective layer that can be applied very easily and quickly and often does not need to be removed.

**K.S.P. 204 VCI and 246 VCI** are a low-viscosity thixotropic (only KSP 204 VCI) oil containing VCI (volatile corrosion inhibitor) with oil jelly-like film formation and drip-free due to run-resistant film. Additional corrosion protection is provided by the outgassing of inhibitors, which condense from the vapour phase onto metal surfaces. Protects metal surfaces that cannot be completely wetted, such as pre-assembled components, machines, systems, gearboxes, chassis stabilisers, etc. Can also be used as a simple and economical alternative to VCI films.

|               |        |
|---------------|--------|
| <b>Form</b>   | liquid |
| <b>Colour</b> | amber  |
| <b>Odour</b>  | mild   |

## Fields of application

- Preservation of entire machines of all kinds for storage and transport
- Preservation of individual assemblies
- For the intermediate / long-term preservation of semi-finished products
- Applications where VOC-free corrosion protection agents are needed

## Instructions for use

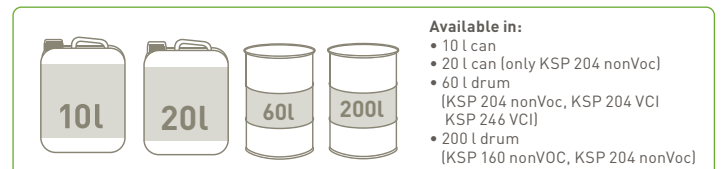
The surfaces to be protected should be dry and clean before applying **Rivolta K.S.P. 160 nonVOC, 204 nonVOC, 204 VCI and 246 VCI**. All products can be applied with a brush, roller or electric or compressed air spray guns.

**K.S.P. 160 nonVOC and 204 nonVOC** can also be applied using a pressure pump atomiser. Application in a dip bath is also often recommended. A dense, highly effective but non-sticky film forms on the component surfaces.

Suitable application devices and accessories in our [accessories brochure](#).

## Removability

If **Rivolta K.S.P.** products need to be removed, this can be done quickly and easily with our aqueous cleaners in hot applications (e.g. steam jet cleaners) or our hydrocarbon-based cleaning products from the Rivolta product portfolio.



|                                     | Value             |                   |                |                | Norm                 |
|-------------------------------------|-------------------|-------------------|----------------|----------------|----------------------|
|                                     | K.S.P. 160 nonVOC | K.S.P. 204 nonVOC | K.S.P. 204 VCI | K.S.P. 246 VCI |                      |
| Density at +15 °C                   | 0,84 g/cm³        | 0,86 g/cm³        |                |                | DIN 51757            |
| Kine. Viscosity at +20 °C           | –                 | 10,3 mm²/s        | –              |                | based on ASTM D 7042 |
| Kine. Viscosity at +40 °C           | 4,6 mm²/s         | –                 | 14 mm²/s       | 46 mm²/s       | based on ASTM D 7042 |
| Flash point                         | > +100 °C         |                   | +130 °C        | +150 °C        | DIN EN ISO 2719      |
| Corrosion prevention time* (months) |                   |                   |                |                |                      |
| - Indoor storing                    | 15 months         | 18 – 24 months    | 24 months      |                | –                    |
| - Outdoor storing u. roof           | 06 months         | 06 – 12 months    | 12 months      |                |                      |

\* The products were examined by intensive tests according to DIN EN ISO 6270 condensation-water-test (KFW), DIN EN ISO 9227 salt-fog test. The above mentioned prevention periods result from the thereby achieved test results as well as from further practical tests. The maximum corrosion prevention time varies with the environmental conditions.



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