

Klüber P 39-462 Spray

Paint for inspecting the contact pattern on tooth flanks



Benefits for your application

- Inspection of contact pattern also with synthetic lubricants
- Intense blue colour offers well-contrasted picture
- Good adhesion allows long-term monitoring
- Simple and accurate spray application

Description

Klüber P 39-462 Spray is an air-drying paint for the inspection of contact patterns on gear tooth flanks. It contains an inorganic binder and organic solvents. Since Klüber P 39-462 Spray is resistant against gear lubricants based on polyglycol, PAO, ester and mineral oil, it can be used for checking and adjusting contact patterns on tooth flanks without problems. The inspection paint is pigmented in intense blue, so it provides a distinct contrast against the bright metallic flank surfaces. Klüber P 39-462 Spray offers good adhesion to clean tooth flanks, so it can be used to monitor the contact pattern over an extended period of time in the -40 °C to 200 °C temperature range. Being a spray, the product can be applied to the tooth flank surfaces exactly where needed.

Application

Klüber P 39-462 Spray is used to check the load-bearing patterns of meshing gears.

Application notes

Pretreatment of surfaces

The tooth flank surfaces to be inspected should be thoroughly cleaned from oil, grease or other residues using a suitable cleaning agent (e.g. SOLUTIN C 9).

Applying the paint

Shake Klüber P 39-462 Spray well before use. Ensure sufficient ventilation during application as explosive mixtures may form. Upon spraying, allow sufficient time for the solvent to evaporate. Do not spray towards naked flame, or hot or incandescent objects. Please note additional application instructions in the material safety data sheet and the can label. Klüber P 39-462 Spray should not be applied to tooth flanks having a temperature below 5 °C . Best results are achieved at flank temperatures between 15 °C and 25 °C . The inspection paint should be sprayed onto the tooth flanks in axial direction to form a thin, even layer. Avoid bubbles, drops or other forms of unevenness. Do not spray over the surface more than once, as thicker layers tend to become brittle. After application, turn can upside down and spray again to clear nozzle.

Drying

Sufficient ventilation and a temperature of 20 to 25 °C provided, Klüber P 39-462 Spray will be dry to the touch after approx. 5 min, and fully hardened after approx. 30 min. A hot air fan can be used to speed up drying on the tooth flanks.

Inspection of load-bearing pattern

Rotating the set of gears once without a suitable test load will not suffice to obtain a picture of the gear's load-bearing pattern. A minimum of 500 rotations under medium to full load is necessary.



Load-bearing pattern made visible on a bevel gear.

Material safety data sheets

Material safety data sheets can be requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.



Klüber P 39-462 Spray

Paint for inspecting the contact pattern on tooth flanks

Pack sizes	Klüber P 39-462 Spray
Aerosol can 400 ml	+

Product data	Klüber P 39-462 Spray
Article number	081295
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 months

Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 80 years.

**Klüber Lubrication München SE & Co. KG /
Geisenhausenerstraße 7 / 81379 München / Germany /
phone +49 89 7876-0 / fax +49 89 7876-333.**

The data in this document is based on our general experience and knowledge at the time of publication and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

Publisher and Copyright: Klüber Lubrication München SE & Co. KG. Reprints, total or in part, are permitted only prior consultation with Klüber Lubrication München SE & Co. KG and if source is indicated and voucher copy is forwarded.