

Klüber P 39-462 Spray

Paint for inspecting the contact pattern on tooth flanks



Your benefits at a glance

- 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

Your requirements - our solution

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.

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.



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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.

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

Hint

Except for the article number and the minimum shelf life, the spray data below refer to the solvent-free spray agent.

Characteristics	Klüber P 39-462 Spray
Article number	081295
Colour space	blue
Density, DIN EN ISO 2811-3, 20°C	approx. 1.19 g/cm ³
Cross-cut adhesion, DIN EN ISO 2409, based on standard, Klüber method: PA 063 / material: test plate	0 Gt
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months

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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 90 years.

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