



VULKOLLAN®

Vulkollan® is an ultra performant polyurethane combining the highest mechanical resistance characteristics with high dynamic load-bearing capacity. Therefore, Vulkollan® is ideal for applications with heavy loads and high speeds in many technical fields.



Our VULKOLLAN® possibilities :

- Hardness range from 83 to 98 shore A
- Maximum diameter 1500 mm
- Wheels, pulleys, technical parts and industrial rollers
- Load and fatigue calculation, project engineering

Hannecard & Vulkollan®

In our search to offer our customers the best solution for every application, Hannecard has chosen to work with the **highest standard** Vulkollan® grades up to 98 shore A.

This combined with our **special bonding and casting technology**, can insure the best performance and the longest lifetime for the most demanding roller and wheel applications.

Our powerful casting machines make it possible to handle **high volumes**, but also very **big dimensions** (up to 1500 mm in diameter) and even industrial rollers for which no other elastomer cover is suited.

Hannecard makes use of **calculation tools** to optimize the wheel and roller core structure, the cover thickness, the hardness and the shape. This makes us your ideal partner for engineering and project development. Besides wheels, pulleys and rollers, Hannecard also offers **customized elastomer parts** in Vulkollan®.

Properties

Vulkollan® is an extremely strong polyurethane. It is distinguished from other elastomers by its better abrasion resistance, higher load resistance and lower dynamic heat build-up.

Furthermore the compression set (capacity to restore the original shape after a strong deformation) is very good. Contrarily to most other polyurethane materials, Vulkollan requires a maturation time in order to reach its maximum mechanical and dynamical properties. During this period, the typical caramel colour gets darker.

Usage

Thanks to its characterized properties, Vulkollan® is the ideal material for high load wheels. Vulkollan® is often applied with a limited thickness of 10-25 mm. Only rarely, a higher thickness is useful.

Vulkollan® is well known for dynamic wheel applications: forklifts, cranes, rollercoasters, robot vehicles, luggage handlers. But also for other high-load applications, Hannecard offers unique Vulkollan® solutions: drive wheels for rotary drums and tanks, parts and pulleys for windmills, guiding pulleys for steel wire, agricultural and offshore applications... Thanks to our high-volume casting equipment, we are also able to coat industrial rollers with Vulkollan®: counterparts for cutting, cradle and snubber rollers for steel mills, hacker rollers for the plastics and fibre industry etc.

The benefits of VULKOLLAN®

- Very high load resistance
- Very low dynamic heat build-up and energy loss
- Low compression set, limited shape loss
- Extended lifetime
- Low rolling resistance
- Temperature resistance up to 80 °C (short periods up to 120 °C)
- Excellent resistance to oil and grease
- Good resistance to ozone and to UV-radiation, suited for outdoors and offshore applications