



KN Series High Quality Naphthenic Rubber Oils

KN series high quality naphthenic rubber oils are deep refined rubber oils made from low freezing point naphthenic crude distillate from Xinjiang Oilfield by utilizing advanced “Three-Stage High Pressure Hydrotreating” technology (hydrotreating, hydrodewaxing and hydrofinishing) under strictly controlled procedure. The oils have excellent appearance, color, high naphthenic hydrocarbon content and a relatively low volatile loss. They exhibit outstanding sunlight resistance and thermal oxidation resistance. With environmental friendly property, the oils are non-polluting high quality naphthenic rubber oils, they reach and even surpass the quality of the same type of world famous brand rubber oils. The series oils are divided into 5 grades according to their kinematic viscosity at 100°C, namely, KN4006, KN4008, KN4010, KN4012 and KN4016.

[Application]

KN series high quality naphthenic rubber oils are mainly used in production of high-grade shoemaking materials and adhesives using SBS as feedstock; they are also widely used in the processing of white or colorful rubber products such as NR, SBR, BR and EPM. They are ideal rubber oils for manufacturing high grade daily use rubbers and sanitary rubbers.

[Performance]

- Excellent appearance: the products are water-white, clear and transparent, non-fluorescent and odorless.
- Extremely low content of condensed-nuclei aromatics: DMSO extracted substance content is much lower than 3%, labeling for carcinogenicity is dispensable, and they will do no harm to human health and environment.
- Excellent performance at low temperature: With a high viscosity and a low pour point, they can greatly improve the physical properties and low temperature resistance of oil extended rubbers and can be easily stored and transported even in cold winter.

- Excellent light and thermal stability: With an extremely low content of aromatics and a C_A value of near zero, the oils have high anti-oxidization stability and anti-discoloration property.
- Low volatile loss: The low volatile loss contributes to the decrease of the density of oil and gas evaporated in operation rooms, which ensures health and safety.
- Extremely low contents of polar materials: With extremely low contents of polar heterocyclic compounds such as nitrogen, sulfur and oxygen, they are able to effectively avoid the discoloration and aging of oil extended rubber and polymer cracking under the sunlight caused by these substances.
- Excellent rubber compatibility: Carbon type analysis shows that C_N value is over 40%; the high content of the naphthenic hydrocarbon ensures their good compatibility with rubbers, thus a large amount of oil could be extended in rubbers.
- Good stability: No oil seeping will arise from rubber products extended with a moderate amount of oil even after long time service.
- Extensive applications: They could not only serve as good extender oils for rubber synthesis, but also as good processing oils (or softening agents) in the manufacturing procedure of rubber products.