

TUFGEAR 100

Heavy-duty open gear lubricant for demanding applications

Product Overview

ROCOL® TUFGEAR 100 is a graphited, heavy duty open gear grease designed for the effective lubrication and protection of gears used in extreme environments.

TUFGEAR 100 has been primarily developed for the lubrication of large girth gears and other open gears particularly where automatic lubrication systems are in use.

Tufgear 100 has been evaluated by Woerner GmbH and is suitable for use with the Woerner GMZ and GMF pumps.

Tufgear 100 is also suitable for use with the Woerner Spray Unit SBD-B.

Features and Benefits

- ROCOL TUFGEAR 100 has a wide temperature range -30°C to +120°C.
- TUFGEAR 100 is a soft graphite grease which is particularly suitable for pumping over long distances on girth gears and similar applications.
- TUFGEAR 100 demonstrates outstanding EP performance (800kg weld load) and is particularly suited for use in heavy duty, highly loaded applications.
- TUFGEAR 100 has excellent corrosion resistance to protect in humid, damp and even wet conditions.
- It is highly tenacious ensuring that the lubricant adheres to the gear teeth and does not fling off.

Directions for Storage and Use

- TUFGEAR 100 can be manually applied directly to clean and dry gear teeth.
- When applying TUFGEAR 100 manually use a stiff brush or other applicator suitable for handling an NLGI No. 0-00 grease.
- When applying TUFGEAR 100 through an automatic lubricator the pump manufacturer's directions for use should be followed.
- The storage temperature should be controlled between +1°C and +40°C
- Shelf life is 4 years from date of manufacture.

Typical Applications

- TUFGEAR 100 is designed for open gears, girth gears, rack and pinions etc. which are found in all types of industrial applications.
- Tufgear 100 is ideal for lubricating the girth gears on cement kilns and waste pulverisers through automatic lubricators.

Pack Sizes

Pack Size	Part Code
185kg	18219

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Property	Test Method	Result
Appearance	Visual	Soft, dark grey, grease
Penetration	IP 50 – ASTM D217	380 - 410
NLGI No.	IP 50 – ASTM D217	0-00
Base Type	N/A	Mineral oil
Base Fluid Viscosity at 40°C	IP 71	590cSt
Thickener	N/A	Aluminium soap
Solids	N/A	Graphite
Particle Size	N/A	Less than 5 microns
Temperature Range	N/A	-30°C to +120°C (up to 250°C as a dry film)
4-Ball Weld Load	IP 239 – ASTM D2596	800kg
4-Ball Mean Hertz Load	IP 239 – ASTM D2596	65kg
Timken 'OK' Load	IP 326 – ASTM D2509	45 lbs
FZG Gear Rig Test A/2.76/50	DIN 51354	Load stage 12 - pass
Salt Spray Corrosion Test 7 days at 35°C	N/A	No corrosion
Humidity Cabinet Corrosion Test 14 days at 40°C – 100% RH	N/A	No corrosion

Values quoted above are typical and do not constitute a specification.

Safety Data Sheets

Safety data sheets are available for download from our website www.rocol.com or may be obtained from your usual ROCOL contact.

The information in this publication is based on our experience and reports from customers. There are many factors outside our control or knowledge which affect the use and performance of our products, for which reason it is given without responsibility.

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