

PLANT ENGINEERING'S Interchangeable lubricants

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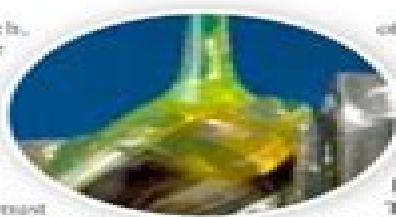
When, where, how much, and with what — these are the fundamental questions that have to be answered in equipment lubrication. The answers are normally provided by the builders of process and manufacturing equipment.

However, maintenance personnel must sometimes address the “with what” question when finding substitutes for previously used lubricants. This exclusive guide, published at 3-yr intervals, provides quick identification of major lubricant sources and cross referencing of products.

The ideal lubricant would last forever and retain all of its properties. In reality, leaks, evaporation, heat, oxidation, and contamination combine to limit its service life. Properly answering the “when” question requires monitoring, by means of oil analysis, which is a fundamental component of modern lubrication and preventive/productive maintenance programs.

Regular laboratory analysis indicates the health of both lubricant and machine. Viscosity, contamination, oxidation, acidity, and metals content are examples of parameters analyzed.

The “where” and “how much” concerns are good candidates for the visual approach to total productive maintenance. For example, lube fittings, filler caps, oil cans, and grease guns can be color-coded for the type



of lubricant and the point of application. Captive plastic dirt caps for neck fittings are available in a variety of colors. Color-coding is often carried over to lube diagrams, which are laminated and attached to equipment or carried on lube routes.

Using the guide

This exclusive guide presents products from 118 companies who responded to our request for information. Some chose not to respond and you will find them missing. Product names, listed in each category, were provided by the manufacturers.

Presenting the data does not reflect the quality of the lubricant, imply the performance expected under particular operating conditions, or serve as an endorsement. Lubricant and equipment manufacturers should be consulted for specific applications or questions.

Viscosity a key factor

Viscosity is the property most widely accepted for identifying lubricants within a category. This characteristic serves as the basis for *PLANT ENGINEERING'S* magazine's product listings. Viscosity can be specified in several ways. The Viscosity/grade comparison chart compares commonly used systems. In this guide, lubricants within each category are arranged according to ISO viscosity grade, with the corresponding Saybolt viscosity shown for reference.

Viscosity/grade comparison chart

ISO viscosity grade	Kinematic viscosity Cst @ 40°C	Saybolt viscosity SUS @ 100 F	Gear lubricant specification	EP gear lubricant	Worm gear lubricant
2	1.98-2.42	32	-	-	-
3	2.88-3.52	35	-	-	-
5	4.14-5.06	40	-	-	-
7	5.12-7.48	50	-	-	-
10	9-11	60	-	-	-
15	13.5-16.5	75	-	-	-
22	19.8-24.2	100	-	-	-
32	28.8-35.2	150	-	-	-
46	41.4-50.6	210	AGMA 1	-	-
68	61.2-74.8	315	AGMA 2	EP 2	-
100	90-110	460	AGMA 3	EP 3	-
150	135-165	700	AGMA 4	EP 4	-
220	198-242	1000	AGMA 5	EP 5	-
320	288-352	1500	AGMA 6	EP 6	-
460	414-506	2150	AGMA 7	EP 7	Comp 7

Note that this guide covers only mineral oil-based products. A similar viscosity chart is published for synthetic lubricants (PE, July 2003, p. 8). PE# 04000. The guide is available on our web site at plantengineering.com. Email the editors, and then subscribe July 2004 issue.

Plant Engineering Magazine Interchangeable Lubricants Guide

**Thirumalaisamy P.
Velavancorresponding**



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Table of Contents Plant Engineering Magazine Interchangeable Lubricants Guide

1. Understanding the eBook Plant Engineering Magazine Interchangeable Lubricants Guide
 - The Rise of Digital Reading Plant Engineering Magazine Interchangeable Lubricants Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Plant Engineering Magazine Interchangeable Lubricants Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Plant Engineering Magazine Interchangeable Lubricants Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Plant Engineering Magazine Interchangeable Lubricants Guide
 - Personalized Recommendations
 - Plant Engineering Magazine Interchangeable Lubricants Guide User Reviews and Ratings
 - Plant Engineering Magazine Interchangeable Lubricants Guide and Bestseller Lists
5. Accessing Plant Engineering Magazine Interchangeable Lubricants Guide Free and Paid eBooks
 - Plant Engineering Magazine Interchangeable Lubricants Guide Public Domain eBooks
 - Plant Engineering Magazine Interchangeable Lubricants Guide eBook Subscription Services
 - Plant Engineering Magazine Interchangeable Lubricants Guide Budget-Friendly Options
6. Navigating Plant Engineering Magazine Interchangeable Lubricants Guide eBook Formats

- ePub, PDF, MOBI, and More
 - Plant Engineering Magazine Interchangeable Lubricants Guide Compatibility with Devices
 - Plant Engineering Magazine Interchangeable Lubricants Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Plant Engineering Magazine Interchangeable Lubricants Guide
 - Highlighting and Note-Taking Plant Engineering Magazine Interchangeable Lubricants Guide
 - Interactive Elements Plant Engineering Magazine Interchangeable Lubricants Guide
 8. Staying Engaged with Plant Engineering Magazine Interchangeable Lubricants Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Plant Engineering Magazine Interchangeable Lubricants Guide
 9. Balancing eBooks and Physical Books Plant Engineering Magazine Interchangeable Lubricants Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Plant Engineering Magazine Interchangeable Lubricants Guide
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Plant Engineering Magazine Interchangeable Lubricants Guide
 - Setting Reading Goals Plant Engineering Magazine Interchangeable Lubricants Guide
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Plant Engineering Magazine Interchangeable Lubricants Guide
 - Fact-Checking eBook Content of Plant Engineering Magazine Interchangeable Lubricants Guide
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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