

# Friction and lubrication of solids

## Clarendon Press - Hydrodynamic Lubrication (HL): Theory and Definition

Friction coeff. class	Range for $\mu_s$ and $\mu_k$	Typical examples for material surfaces	Lubrication
A	0.4-1.0	metallic, bright polished black tempered phosphated galvanised coatings such as Zn, ZnFe, ZnNi zinc levigated coatings	solid lubricants such as MoS <sub>2</sub> , graphite, PTFE, PA, PE, PI or polymer var. glasses var. dispersions var. dispersions
B	0.8-1.8	metallic, bright polished black tempered phosphated galvanised coatings such as Zn, ZnFe, ZnNi zinc levigated coatings Al and Mg alloys hot-dip galvanised organic coatings austenitic steel	solid lubricants such as MoS <sub>2</sub> , graphite, PTFE, PA, PE, PI or polymer var. glasses var. dispersions, polymer oil, or delubricated condition MoS <sub>2</sub> , graphite, var. dispersions var. organic solid lubricant or var. dispersion solid lubricants or var. glasses
C	1.4-2.4	carbonitic steel metallic, bright polished phosphated galvanised coatings such as Zn, ZnFe, ZnNi non-electrolytically applied zinc alloyed	var. dispersions, var. glasses as delivered state (slightly oily)
D	1.8-4.5	austenitic steel galvanised coatings such as Zn, ZnFe hot-dip galvanised	oil none
E	>1.0	galvanised coatings such as ZnFe, ZnNi austenitic steel Al and Mg alloys	none

Description: -

- Lubrication and lubricants.

Friction, friction and lubrication of solids

- Taking action

The International series of monographs on physicsfriction and lubrication of solids

Notes: Includes bibliographies and indexes.

This edition was published in 1954



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### Solid Lubricants and Self

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### What Are Lubricants?

Some organic substances such as lard and are still in use as additives because of their special lubricating properties. Friction at single-layer graphene step edges due to chemical and topographic interactions.

### Friction and lubrication (presentation)

They may be in the form of powders, films or composite materials. Bowden is at University of Cambridge. Miscellaneous inorganic compounds with special applications involving friction and wear are also considered.

### Fluid Friction : Types of Friction With Detailed Explanation & Example

Patterned liquid metal contacts for high density, stick-and-peel 2D material device arrays.

### The friction and lubrication of solids / by F.P. Bowden and D. Tabor

Solids such as graphite and molybdenum disulfide are widely used when normal lubricants do not possess sufficient resistance to load or temperature extremes.

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