



Evaluation of Selected Solid Lubricating Films

By Kazuhisa Miyoshi

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 26 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. An investigation was conducted to examine the friction and wear properties of bonded molybdenum disulfide (MoS₂), magnetron-sputtered MoS₂, ion-plated silver, ion-plated lead, magnetron-sputtered diamondlike carbon (MS DLC), and plasma-assisted, chemical-vapor-deposited DLC (PACVD DLC) films in sliding contact with 6-mm-diameter AISI 440C stainless steel balls. Unidirectional ball-on-disk sliding friction experiments were conducted with a load of 5.9 N and a sliding velocity of 0.2 ms at room temperature in three environments: ultrahigh vacuum (vacuum pressure, $7 \times 10^{(-7)}$ Pa), humid air (relative humidity, approx. 20 percent), and dry nitrogen (relative humidity, less than 1 percent). The main criteria for judging the performance of the solid lubricating films were coefficient of friction and wear rate, which had to be less than 0.3 and on the order of $10^{(-6)}$ cubic mmN(dot)m or less, respectively. The bonded MoS₂ and magnetron-sputtered MoS₂ films met the criteria in all three environments. The ion-plated lead and silver films met the criteria only in ultrahigh vacuum but failed in humid air and in dry nitrogen. The MS DLC and PACVD DLC films met the...



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