



The Effect of MoS2 on Friction & Wear Behavior of PTFE Composites

By Ashutosh Mokate

Anchor Academic Publishing Mai 2016, 2016. Taschenbuch. Book Condition: Neu. 220x155x4 mm. Neuware - The wear resistance of PTFE can be significantly improved by addition of suitable filler materials. Besides the type, the shape and size of the materials added also influence the tribological properties. In the past, research in this area has been confined to the PTFE filled with conventional filler materials like glass fibers, graphite, carbon fibers, etc. However, with the growing demand for utilizing PTFE in a variety of applications, significant effort is needed towards developing the novel composite materials by adding one or more non-conventional filler materials possessing the potential of increasing the wear resistance. It is established that PTFE exhibits significantly low coefficient of friction when sliding against steels. The low coefficient of friction results from the ability of its extended chain linear molecules, - (CF₂-CF₂)_n-, to form low shear strength films upon its surface and mating counter-faces during sliding. PTFE is extensively used for a wide variety of structural applications as in aerospace, automotive, earth moving, medical, electrical, electronics, computer and chemical industries. On account of its good combination of properties, these are used for producing a number of mechanical components such as...



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