

Energy Consumption and Maintenance Optimisation in Egyptian Textile Machinery: A Working Paper on Molybdenum Disulphide Nano-Flake Lubricants in 10th of Ramadan City

K, a, r, i, m, A, b, d, e, l, -, F, a, t, t, a, h, ,, N, a, d, i, a, H, a, s, s, a, n, ,, A,
m, r, E, l, -, S, a, y, e, d

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| Abstract

This study addresses a current research gap in Engineering concerning Molybdenum disulfide nano-flake lubricants for textile machinery in Egypt's 10th of Ramadan City: Energy consumption and maintenance interval extension in Egypt. The objective is to clarify key debates, identify practical implications, and outline a focused agenda for scholarship and policy. A qualitative approach was used, drawing on recent literature and policy sources to frame the analysis. The analysis indicates persistent structural constraints alongside emerging local innovations; however, evidence remains uneven across contexts and sectors. The paper argues for context-specific approaches and stronger empirical foundations in future research. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Molybdenum disulfide nano-flake lubricants for textile machinery in Egypt's 10th of Ramadan City: Energy consumption and maintenance interval extension, Egypt, Africa, Engineering, working paper This structured abstract provides a standardised summary to support rapid screening, indexing, and assessment of scholarly contribution.
