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The invention refers to the field of hard lubricants and may be used in the aircraft, cosmic technique and other fields of mechanical and instrument engineering for lubrication of difficult accessible friction units functioning in vacuum both at low temperatures and at 150...200°C.

Summary of the invention consists in, that the solid magnetic lubricant, containing caprolactam and iron hydroxide complementary comprises a powdered metal of one of the transition groups, especially: nickel, iron or cobalt at further component ratio, mass % :

caprolactam	40...60	
iron hydroxide	30...40	
powdered metal of one of the transition groups	10...20.	