

Behaviour of the additives in plastic lubricants

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Abstract Plastic lubricants are non- newtonian fluids containing lubricant oils and some thickeners with great molecular weight. This paper presents complex sodium soap greases and special lubricants for pressure casting of non- ferrous metals base alloys. According the requirements and applications, plastic lubricants contain also additives and other solid ingredients. The additives improve some characteristics of the base grease and provide other additional properties. Lubricating grease additives are specific products. The optimum additives combination should meet the requirements regarding: oxidation stability, protection against corrosion, adherence, rheological properties, extreme- pressure and anti-wear properties. As a result, most lubricating greases formulations contain more than one additive.

Keywords: additives, plastic lubricants, greases, complex soaps, oils, thickening agents, complexing agents
