

GRAFT POLYMERS AND THEIR USE AS LUBRICANT ADDITIVES

ABSTRACT

The invention relates to lubricating oil additives comprising graft polymers with a viscosity index-improving action, the graft polymers PFP being synthesised from 10 - 90 wt.-% based on PFP of polyalkylmethacrylate macromonomers (A) which are copolymerised with 0 - 90 wt.-% based on PFP of alkyl(meth)acrylic acid esters (AMA) having C₆-C₃₀-alkyl groups, and with 0 - 60 wt.-% based on PFP of non-functionalised comonomers (B) selected from the group comprising alkyl(meth)acrylic acid esters having C₁-C₅-alkyl groups, styrene, alkyl styrenes having C₁-C₄-alkyl groups and fatty acid vinyl esters having 2 to 12 carbon atoms in the fatty acid group, and with 0 - 40 wt.-% based on PFP of functionalised comonomers (C) selected from the group comprising functionalised (meth)acrylic acid esters and amides and vinyl heterocycles with the proviso that the sum of the copolymerised monomers based on PFP is 10 to 90 wt.-%, in a carrier medium TM.