

Title (en)  
Silicone fluids for viscous couplings.

Title (de)  
Silikonflüssigkeiten für Visco-Kupplungen.

Title (fr)  
Fluides de silicone pour accouplements visqueux.

Publication  
**EP 0397507 B1 19950315 (EN)**

Application  
**EP 90305069 A 19900510**

Priority  
• JP 2870090 A 19900207  
• JP 3099090 A 19900209  
• JP 3336890 A 19900213  
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Abstract (en)  
[origin: EP0397507A1] An organopolysiloxane, containing a C1-18, optionally halogenated, hydrocarbon group, is used as the fluid in a viscous coupling, with as additive: a) a phosphorus type anti-wear agent (27 formulae are given), e.g. a triaryl phosphate, optionally also with a sulfur or zinc dithiophosphate agent, each in amount of 0.01 - 5 wt %; or b) a metal deactivator, e.g. benzotriazole or other heterocyclic compound or an organic acid, and or a corrosion inhibitor, e.g. a stearate, each in amount of 0.001 to 1 wt %. An antioxidant may also be added, e.g. an amine, in amount of 0.001 to 5 wt %. The fluids are exemplified as used in a coupling having 111 metal discs, with 25 to 50 rpm difference in speeds of rotation, at 130 DEG C for up to 100 hours; they have improved heat-resistance, and so suffer little change in viscosity or torque in use.

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IPC 8 full level  
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CPC (source: EP)  
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