

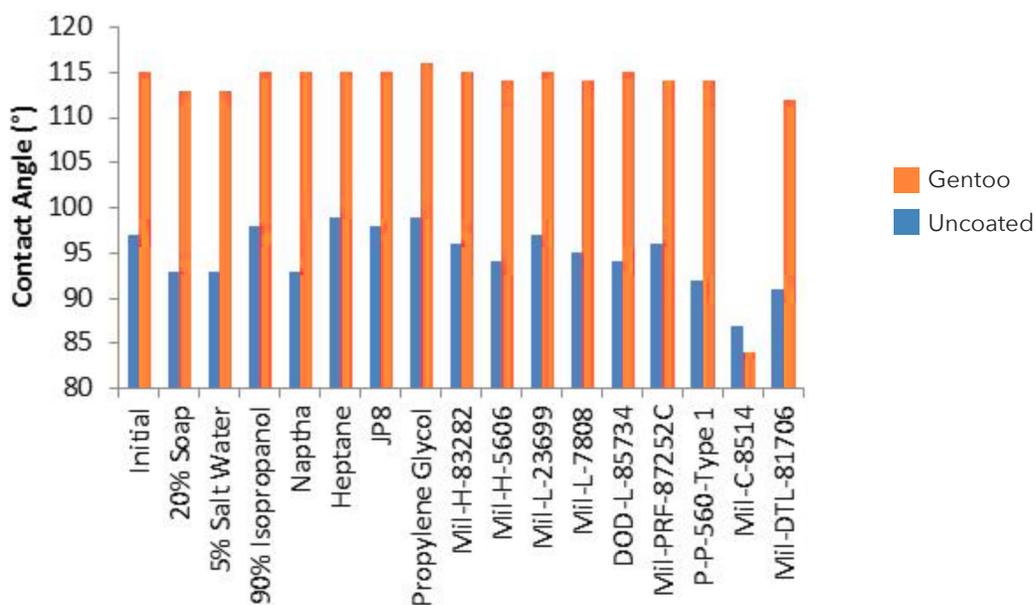
Fluid Immersion Testing

Glass slides coated with Gentoo were exposed to various solvents, each for 48 hours. After this time, the Gentoo-coated slides were removed from the solvent and tested for water contact angle.

Solvent	Specification
Mild soap	20 vol. % in water
Salt water	5 wt. %
IPA	50 vol. %
IPA	90 vol. %
Naptha	---
Heptane	---
Jet fuel	JP8
Deicing fluid	100% Propylene glycol
Hydraulic fluid	Mil-H-83282
Hydraulic fluid	Mil-H-05606
Lubricant	Mil-L-23699
Lubricant	Mil-L-7808
Lubricant	DOD-L-85734
Polyalphaolefin coolant	Mil-PRF-87252C
Navy plastic polish	P-P-560, Type 1
Airplane wash cleaner fluid	Mil-C-8514
Alodine 1201 wash and rinse	Mil-DTL-81706



The results of the water contact angle testing are as follows. Shown are the control (untreated glass slides) and the slides treated with Gentoo:



Hydrophobicity is maintained for most of the solvents. There was only one solvent that had a negative effect on the Gentoo - the MIL-C8514, which is an acidic aircraft primer.



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