USE OF RESINS FOR IMPROVING PERFORMANCE OF AIRCRAFT TIRE RETREADS

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A crucial property of aircraft (AC) tire treads is the grip of the tire during landing. Resin addition is known to improve wet grip of a tire, and this was confirmed for AC tire retreads containing different fillers. Ice traction was also improved, but at the expense of heat build-up performance in a compound with carbon black and a hybrid carbon black/silica filler system. When silica is the sole filler, HBU can also be improved. These improvements though depend on the type of resin: an aromatic hydrocarbon C9 resin results in better wet skid performance than a terpene-phenol resin.