

# Performance of Studded Tires on Ice

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## ABRIDGMENT

•THE RESULTS of tests of studded tires on ice in 1964 and 1965 by the National Safety Council Committee on Winter Driving Hazards left a number of questions unanswered. The 1966 tests will answer some of these questions; consequently, it was decided not to make a full report at this time but to wait until January 1967 when the 1966 test information could be included.

The average results of the tests through 1965 are given in the tables below.

### SKID DISTANCE ON GLARE ICE AT 32 F<sup>a</sup>

Test Tires	Skid (ft)	
	New	Used <sup>b</sup>
Regular highway	167	188
Regular snow	167	174
Highway with studs	123	150
Snow tires with studs	125	152
Regular with reinforced chains	68	99 <sup>c</sup>

<sup>a</sup>From 20 mph with all wheels locked, test tires on rear wheels, regular tires on front wheels.

<sup>b</sup>Used tires had been operated for 5,000 mi.

<sup>c</sup>Performance of new round chains which in some brands would closely simulate used reinforced chains.

### TRACTION ON ICE

Test Tires	Rating	Improvement (%)
Regular highway	100	—
Regular snow	136	36
Snow tires with studs	236	136
Regular with reinforced chains	505	405