

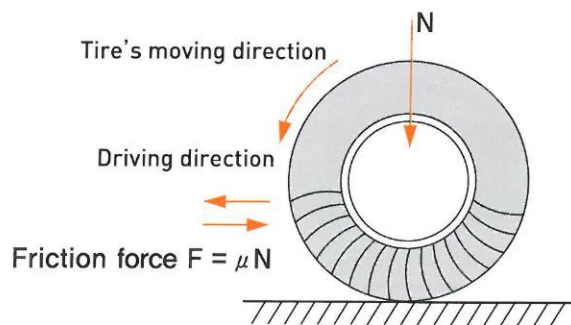
What is the Wear?

Irregular tread wear is generated by the faulty on tyre's usage, maintenance, the way of mounting, etc. and most drivers don't know how it occurs. To understand the principle of wear, you need to know about tyre friction

1) Rolling friction

It is defined as generated friction on the contact point when tyre is rolling on the road.

It means if the vehicle's driving direction agree with tyre's one, only rolling resistance is generated without slipping friction. Tread wear is nearly free in this condition. So, tread wear at the front wheel tyre associated with steering is progressed more rapidly than the rear one.



$$F = \mu N$$

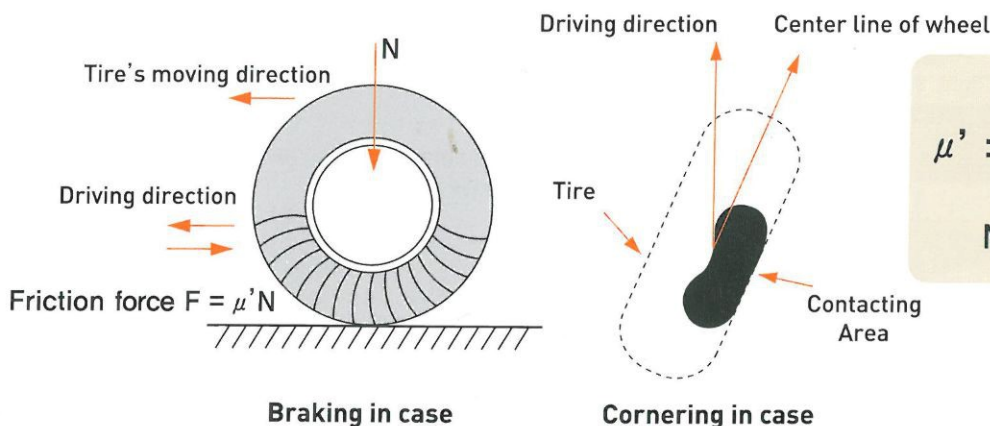
μ : rolling coefficient of friction
 N : vertical load

2) Slipping friction

It is known as the resistance against surface while tyre is pulled as it is being slipped without rolling.

The slip coefficient of friction is much larger than the rolling coefficient of friction so that the slip resistance get more friction resistance. Emergency braking without rolling, only slip resistance is generated.

And during cornering drive, both rolling resistance and slip one is occurred together.



$$F = \mu' N$$

μ' : Sliding coefficient of friction
 N : vertical load