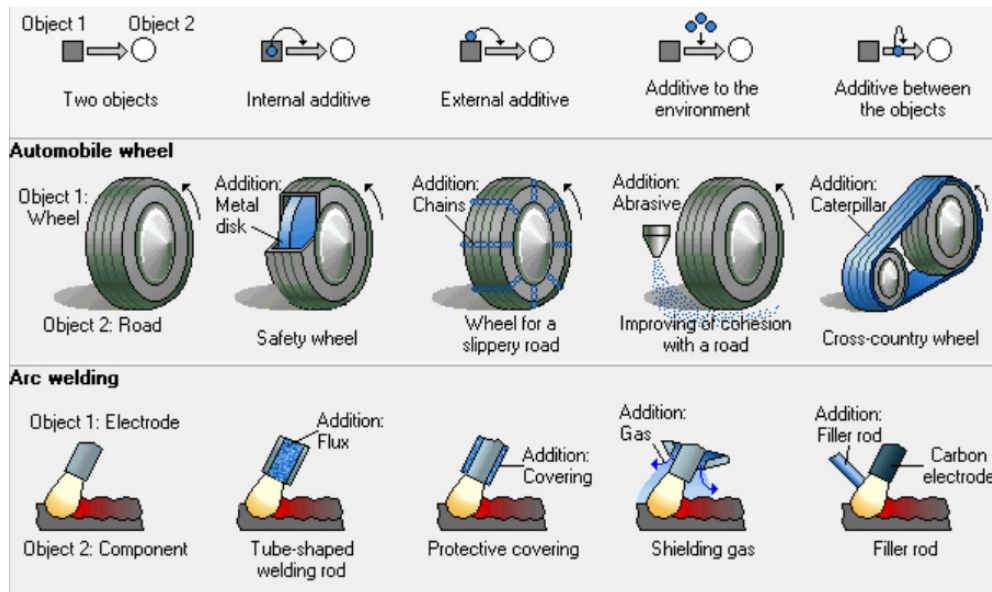


In improving engineering often the objective is set to improve interaction of two objects. Various additives are used to achieve this. The additives are introduced in one of the objects around one or two objects, as well as between their interacting surfaces.



- An **automobile wheel** is a rigid rim on which a rubber tire filled with a compressed air is mounted.

Such a wheel cushions properly enabling a car to develop a high speed.

- A metal disk is mounted inside the tire. When punctured, the tire is not dismantled and a vehicle moves stably. Traffic safety improves.
- Metal chains or special bands are mounted on the wheel. They prevent the wheel from spinning on a slippery road. Such wheels have a good grip with the road. Off-road capacity improves.
- An abrasive material is fed onto the road in front of wheels. A good road-wheel grip is provided and spinning is avoided. Off-road capacity improves.
- A caterpillar band is provided between a wheel and a road. It uniformly presses against the ground and wheels roll along its inner surface. A caterpillar propeller exerts low pressure on the ground a has a high cross-country capability

- One of the poles of the power source is connected to the **welding** rod and the other pole is connected to the component to be welded. An electric arc that melts the metal is generated between the electrode and the component. The components are welded together.

- Flux is positioned inside a welding rod. The flux protects the welding seam from oxidation. The arc burns stably, and the welding quality improves.
- A welding rod is coated with a covering comprising alloying material. As the covering burns, the seam is alloyed and its strength increases. Welding quality improves.
- Parts are welded in the shielding gas medium. The gas envelops the electrodes and the parts, preventing oxidation. Welding of non-ferrous metals is simplified.

- An electric arc is formed between the non-melting electrode and the welded components. A metal wire is introduced into the arc. Welding quality of different metals improves