

# ACTIV8 Friction Reducer

Works with all commercially available lubricants and contains no solids such as PTFE, Ceramics, Lead, etc.. It will not affect design tolerances.

ACTIV8 Friction Reducer bonds into metal to metal working surfaces under load at low temperatures, creating an extremely low friction surface which is able to withstand excessive temperatures and pressures. ACTIV8 Lubricants Ltd. is continuing many years of development and testing, ensuring ACTIV8 Friction Reducer's safe and effective use in ever increasing applications.

## How Much To Use:

Please find opposite tables listing some of the most widely accepted applications in which ACTIV8 Friction Reducer is used.

ACTIV8 Lubricants Ltd. has made certain assumptions about your vehicle's oil capacity. Although the oil capacities of vehicle engines differ greatly (ranging from 3.5 to nearly 10 litres for cars/vans and from less than 1 to 6 litres for motorcycles), the amounts suggested in the table below cover the vast majority of engine sizes and their differing oil capacities.

ACTIV8 Friction Reducer is not used to improve the performance of the oil. The base oil is used to distribute the ACTIV8 Friction Reducer to the loaded metal to metal working surfaces, allowing the ACTIV8 Friction Reducer to treat the metal surfaces whilst allowing the oil to work to specification.

## 4- STROKE ENGINES

For the initial treatment, add to engine oil at a ratio of between 2.5<sup>ml</sup> and 5<sup>ml</sup> of sump capacity (i.e. between 25ml and 50ml per litre of oil). In automotive applications this treatment will last for no longer than 25,000 miles / 40,000 km or 5 oil changes (whichever is the sooner).

Manufacturers' recommended frequency of oil changes must be observed but there is no need to add any more ACTIV8 Friction Reducer until 25,000 miles / 40,000 km or 5 oil changes after the first treatment. Then another treatment with half the original quantity will maintain the required ratio for a further 25,000 miles / 40,000 km or 5 oil changes.

The survival of the effects of ACTIV8 Friction Reducer can differ under different operating conditions. For example, the higher the load and/or temperature, the quicker the residual effect of ACTIV8 Friction Reducer will be reduced.

## FOR EXAMPLE:

**Racing:** the reapplication of ACTIV8 Friction Reducer is recommended once every second oil change (half of the original quantity), although many use it in every oil change.

**Towing / Maximum load vehicles:** For all vehicles operating under constant maximum load conditions such as light commercials or towing, it is known that ACTIV8 Friction Reducer usually requires more frequent reapplications.

## GEARBOXES, DIFFERENTIALS & TRANSFER BOXES:

Add to gearbox oil at a ratio of between 5<sup>ml</sup> and 10<sup>ml</sup> of sump capacity (i.e. between 50ml to 100ml per litre). In automotive applications, this treatment will last for no longer than 50,000

miles / 80,000 km or every other oil change after the first treatment. Then another treatment on the second oil change, with half the original quantity, will maintain the required ratio for a further 50,000 miles / 80,000 km or 2 oil changes.

For vehicles with combined engine and gearbox oil and also vehicles with engine capacity over 1,800cc (Petrol) or 1,400cc (Diesel), the full 5<sup>ml</sup> ratio of ACTIV8 Friction Reducer to sump capacity is recommended.

## 2-STROKE ENGINES:

For the initial treatment add 7.5<sup>ml</sup> ACTIV8 Friction Reducer to the 2-stroke oil (75ml per litre of oil). Each further litre of 2-stroke oil can then be treated with 5<sup>ml</sup> (50ml ACTIV8 Friction Reducer) to maintain the effect.

For pre-mix units, add ACTIV8 Friction Reducer to a bottle of 2-stroke oil first, (shake to mix well), before adding the 2-stroke oil to the fuel at the manufacturer's recommended ratio. If ACTIV8 Friction Reducer is added to the fuel oil mix after the oil has been mixed at the correct ratio, the mixture will become too rich and may cause loss of performance.

For injection feed units (separate 2-stroke oil tank), add ACTIV8 Friction Reducer to a bottle of 2-stroke oil first, (shake to mix well), before adding the 2 stroke oil into the oil tank. If ACTIV8 Friction Reducer is added directly to the oil tank, the ACTIV8 Friction Reducer will not disperse sufficiently within the 2 stroke oil before use.

## MOTORCYCLES USING WET CLUTCHES:

ACTIV8 Friction Reducer is very suitable and warranted for use in wet clutch systems. ACTIV8 Friction Reducer needs metal to metal surfaces working together under a load to become 'ACTIV8ed'.

ACTIV8 Friction Reducer does not contain any solids or thickeners to provide a coating like other additives and therefore will not interfere with the clutch plate material.

Since 99.9<sup>%</sup> of wet clutch units use either mineral, fibre, cork, Kevlar or soft sintered composite clutch plate material, ACTIV8 Friction Reducer cannot become 'locked-in' and cannot cause slippage. ACTIV8 Friction Reducer is fully guaranteed not to negatively affect wet clutches using mineral, fibre, cork, Kevlar or soft sintered composite clutch plate material. ACTIV8 Friction Reducer is also suitable for use in systems using slipper clutches.

## CARS & VANS

	AMOUNT
Petrol Engines up to 1800cc max	125ml
Petrol Engines 1801cc to 5000cc	250ml
Diesel Engines up to 1400cc max	125ml
Diesel Engines 1401cc to 4200cc	250ml
Manual Gearbox	125ml
Transfer Box	125-200ml
Power Steering (pre-mix with fluid first)	50ml
Differentials (if separate from gearbox)	75ml

## 4-STROKE MOTORCYCLE

Engine & Gearbox (Unit Construction Wet or Dry Clutch)

Up to 125cc	50ml
126cc to 350cc	75ml-100ml
400cc to 800cc	125ml
801cc to 1400cc	200ml
1401cc to 2300cc	250ml
Shaft drive differential	25ml

## 4-STROKE MOTORCYCLE

### SEPARATE ENGINE & GEARBOX

(Separate Engine & Gearbox Oils)	AMOUNT
Up to 125cc & Gearbox	25ml / 25ml
126cc to 350cc & Gearbox	50ml / 50ml
400cc to 800cc & Gearbox	75ml / 50ml
801cc to 1800cc & Gearbox	125ml / 75ml
1801 to 2300cc & Gearbox	250ml / 100ml
Shaft drive differential	25ml

## 2-STROKE MOTORCYCLES & OTHER 2-STROKE EQUIP'T

All Engines 75ml per one litre of oil  
Mix ACTIV8 Friction Reducer with 2-stroke oil first before application to oil reservoir or pre-mix.

## WARNING

Do not use in systems which rely on metal to metal friction to operate, including some pre 1958 automatic gearboxes, elevator gearbox backstops and CVT automatic gearboxes. Also do not use on frictional loaded firing mechanisms in firearms.

For further advice visit [activ8lubricants.com](http://activ8lubricants.com) or call Customer Care.

## HEALTH & SAFETY

### ENVIRONMENTAL PROTECTION

Oil can cause skin complaints. Repeated exposure may cause skin dryness or cracking. Always thoroughly wash skin which has been in contact with it. Keep out of reach of children. Harmful if taken internally. Contact doctor immediately. Avoid contact with skin and eyes.

### WARNING:

Very toxic to aquatic life with long lasting effects. Avoid release to the environment. Collect spillage – Dispose of contents/ container at an approved hazardous waste facility.



[www.activ8lubricants.com](http://www.activ8lubricants.com)

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