

DPF & Injection Cleaner

# FLASH WORKS

< Feature >

"FLASH WORKS" is a fuel additive for diesel engine vehicles with DPF (Diesel Particulate Filters).

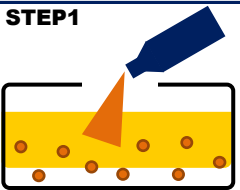
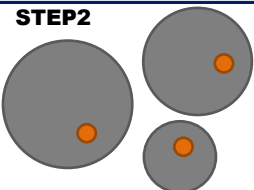
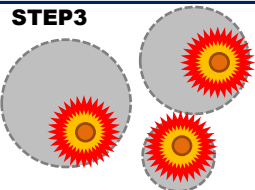
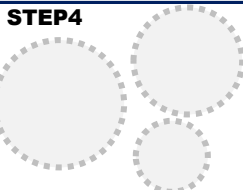
It contributes to complete burning of the carbon in the fuel and reduces "Regeneration Trouble" of DPF device.

- Burn the deposited soot in the DPF efficiently
- Reduce the amount of the deposited soot in the DPF and extend the interval of the regeneration cycle
- Reduce the Post injection times and contribute to fuel consumption
- Clean the injection nozzle and keep the efficient fuel combustion
- Keep the burning temperature of the soot lower during regeneration and reduce the damage of DPF

※ What is regeneration trouble...  
 Regeneration trouble is that "Not completing regeneration of the DPF" without frequent automatic or manual (forced) regeneration performed. Under the driving conditions with many STOP & GO, exhaust gas temperature does not rise enough and soot tends to deposit in the DPF.

< Working Image >

- FLASH WORKS
- Soot particles deposited into DPF

STEP1	STEP2	STEP3	STEP4
			
Shake FLASH WORKS well and add into the fuel tank.	At the same time of the fuel combustion, FLASH WORKS get into the soot.	FLASH WORKS weakens the carbon bond of the soot and the soot will be burned easily. Burned soot becomes the gas (CO <sub>2</sub> ).	The burned soot is exhausted efficiently as the gas (CO <sub>2</sub> ) and the clog of DPF will be improved.

< Typical use >

DPF devided vehicle、Common rail (CR) fuel injection system vehicle、Truck and bus、 Construction machinery、 Generator、 Vessel etc.  
 Recommend for vehicles under the driving condition with many STOP & GO.

< Usage >

- FLASH WORKS 1 bottle (500ml) for diesel fuel 50L~100L
- Shake FLASH WORKS well and add it into the fuel tank before refueling.
- Recommend the continual use for keeping the effect.

< Precautions >

- Avoid usage with other fuel additives.

< Storage >

- Store in cool and dry place and keep away from direct sunlight.
- Keep sealed after use.

< Packing >

500ml x 12bottle / box (Dark brown liquid)



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## FLASH WORKS demonstration experiment data CASE1

<Vehicle data>

Vehicle name	Mitsubishi Fuso Fighter(4ton)	Fuel tank capacity	100L	
Vehicle model/engine	PDG-FK74F/6M60	Engine capacity	7500cc(7545cc)	
Model year	2008 formula	Utility	Delivery of drums	
ODO Meter	Date	Driving distance to the next DPF regeneration cycle	DPF regeneration type	The average distance to the next regeneration cycle
432,259km	May 11th	—	Manual regeneration	—
432,652km	May 15th	393km	Automatic regeneration	336km
433,036km	May 17th	384km	Automatic regeneration	
433,267km	May 18th	231km	Manual regeneration	
<b>FLASH WORKS 1bottle (500ml) into the diesel fuel tank</b>				
433,858km	May 24th	591km	Manual regeneration	967km <b>About 280% UP</b>
435,059km	June 8th	1,201km	Automatic regeneration	
435,502km	June 12th	443km	Automatic regeneration	
437,136km	June 21st	1,634km	Automatic regeneration	

<User comments>

Manual regeneration reduced and automatic regeneration worked for it.  
Fuel consumption improved from 6.17km/L (May) to 6.43km/L (June).

## FLASH WORKS demonstration experiment data CASE2

<Vehicle data>

Vehicle name	Mitsubishi Fuso Fighter(2ton)	Fuel tank capacity	100L	
Vehicle model/engine	PDG-FE84DV/4M50	Engine capacity	4800cc(4899cc)	
Model year	2008 formula	Utility	Delivery of beverage	
ODO Meter	Date	Driving distance to the next DPF regeneration cycle	DPF regeneration type	The average distance to the next regeneration cycle
459,571km	April 28th	—	Manual regeneration	—
459,903km	May 2nd	332km	Manual regeneration	461km
460,492km	May 11th	589km	Manual regeneration	
<b>FLASH WORKS 1bottle (500ml) into the diesel fuel tank</b>				
461,633km	May 23rd	1,141km	Manual regeneration	1,049km <b>About 230% UP</b>
462,794km	June 2nd	1,161km	Manual regeneration	
463,640km	June 12th	846km	Manual regeneration	
464,831km	June 22nd	1,191km	None regeneration	

<User comments>

Fuel consumption has improved from 8.10km/L (May) to 8.32km/L (June).

## FLASH WORKS usage guideline



Flash works is the additive for diesel engine vehicles with DPF. (It can not be used for gasoline engine vehicles.)  
Just adding the recommended amount into the fuel tank, its effect lasts until the fuel tank is empty.

**POINT!!**

- Shake FLASH WORKS well and add it into the fuel tank before refueling.
- Recommend add once every two or three months or exchange of engine oil.
- Recommend continual use for the vehicles with frequent automatic regeneration problems.

## Addition amount of FLASH WORKS

Vehicle type	Amount of refueling	Amount of FLASH WORKS (0.5~1%)
Passenger vehicle (HiAce·Caravan etc)	~100L	1bottle (500ml)
2~4 ton truck		
over the 4 ton truck	100L~200L	2bottles (1000ml)
8 ton truck		
10 ton truck	200L~400L	4bottles (2000ml)
over the 20 ton truck		

■Remarks■

The fuel tank capacity of a large size vehicle (truck) varies depending on the type of model and car manufactures. Confirm the capacity of fuel tank by the instruction manual before adding FLASH WORKS.