

# TECHNICAL INFORMATION

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## INTRON® dLube 2090

### DESCRIPTION

INTRON® dLube 2090 is a highly concentrated anti-wear lubricant additive for low and ultra low sulfur diesel and heating fuels.

### APPLICATION

INTRON® dLube 2090 improves the lubricity of low and ultra low sulfur diesel and heating oils, reducing friction and fuel pump wear.

In diesel fuels with a low sulfur content of <0.05% according to EN590, by adding INTRON® dLube 2090 in an amount of 50-150 ppm, the wear scar diameter on the HFRR bench can be reduced to <460 µm. In ultra-low sulfur diesel fuels the dosage can be increased up to 450ppm.

### PROPERTIES

The physical state	Liquid
Appearance	amber color
Solubility	In most aromatic hydrocarbons, insoluble in water
Chemical composition	Fatty Acid Blend
Density at 15C	0,89 - 0,93 g/cm <sup>3</sup>
Viscosity at 20C	20-50 cSt
Cloud point	Max -4C

	Parameter	Meaning	Control method
Product quality specification	Acidity (mg KOH/g)	194 – 199	AQSM 001
	Appearance	3,0 – 4,5	AQSM 002
	Free rosin acids, %	1,0 – 2,0	AQSM 010
	Non-saponifiable residue	Max 2	AQSM 011

### STORAGE AND PACKAGING

INTRON® dLube 2090 can be stored under normal storage conditions (temperature 0-50°C, sealed package) for at least 1 year.

### COMPATIBILITY

INTRON® dLube 2090 does not form gels or precipitates when mixed with lubricating oils containing strong base surfactants such as calcium sulfonate.

Other properties of fuels, such as cloud point, pour point and filtering point, do not change when INTRON® dLube 2090 is added at 100ppm.

INTRON® dLube 2090 does not affect other diesel fuel characteristics such as oxidation stability and cetane number, nor does it interact with indicators and markers used in automotive and industrial gas oils.

The product (at 200ppm) does not improve the emulsifying power of diesel fuels in the presence of water (ASTM D 1094).

INTRON® dLube 2090 does not degrade the controlled emissions (HC, CO, NOx, particles) of small diesel engines.

### SECURITY

The usual precautions must be taken. The workplace must be adequately ventilated. Safety data sheet according to EC directive 91/155/EC

### SUPPLIER INFORMATION

The product is supplied by PETRONAX

### CONTACT INFORMATION

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