

## SPECIFICATION (European)

### Diesel EN590 10 ppm

Specifications	Unit.	Threshold values acc. to DIN EN590	Requirements not specified/stricter than DIN EN590	Test method
Appearance	---	---	Clear at 20 °C Clear at 10 °C (free from any visible water and foreign particles)	Visual
Colour	---	---	max. 2	DIN ISO 2049
Density at 15°	Kg/m <sup>3</sup>	min. 820 /max.845	---	EN ISO 3675:1998 EN ISO 12185:1996
Centene (acc. To CFR) Number (acc. To BASF)	---	min. 51 min. 52.2	---	EN ISO 5165:1998 DIN 51773
Centene index	---	min. 46	---	EN ISO 4264
Viscosity at 40 °C	mm <sup>2</sup> /s	2 – 4,5	---	EN ISO 3104
Flashpoint	°C	min. 55	min. 59	EN 22719
Neutralisation number	mg KOH/g	---	max.0.2	DIN 51558 Part 1
Corrosive effect on copper (3h at 50 °C) degree	Corrosion	max. 1	---	EN ISO 2160
Total contamination, indicated as mass concentration	mg/kg	max. 24	---	EN 12662
Oxidation stability, indicated as mass concentration	g/m <sup>3</sup>	max.	---	EN ISO 12205
Sulphur content	mg/kg	max. 10	---	EN ISO 20884 EN ISO 20846 ASTM D 5453 DIN 51400-T11
Carbon residue distillation residue	% (m/m)	max. 0,3	---	EN ISO 10370
Ash content	% (m/m)	max. 0,01	---	EN ISO 6245
Distillation at 250 °C 350 °C at 95%	Vol. % Vol. % Vol. %	< 65 min. 85 max. 360 °C	--- --- ---	prEN ISO 3405:1998
Lubricity Micrometer	micrometer	max. 460	---	ISO 12156-1
Conductivity at 20 °C	Ps/M	---	min. 50 ps/M	DIN 51412-2 ASTM D 2624
Polycyclic aromatic hydrocarbons (PAH)	% (m/m)	max. 11%	---	EN 12916 IP 391/95
Water content	mg/kg	max. 200	---	prEN ISO 12937:1996
Fatty acid methyl ester content (FAME)***	% V/V	max. 5	---	EN 14078
Cold flow properties* 01.03. – 14.04. 15.04. – 14.09. 15.09. – 14.10. 15.10. – 31.10. 01.11. – 28.02. **	°C	CFPP -10 (01.03. – 14.04.) .0 (15.04. – 30.09.) -10 (01.10. – 15.11.) -20 (16.11. – 28.02.)	CP/CFPP -3/-13 +5/-2 -3/-13 -3/-13 -7/-22	ISO 3015 EN 116 / IP309