

Rapeseed oil as fuel DIN 51605:2010-10

The standard for requirements "rapeseed fuel for Diesel engines" has just been published as an official DIN standard. The most important changes to the former prestandard V DIN 51605:2006 are highlighted with yellow colour in the table below. The oxide ash and carbon residue are no longer listed in the standard and therefore do not have to be analysed any more.

Parameter	Method	DIN 51 605:2010-10		Unit
		min.	max.	
Visual Inspection ¹	-	Limpid, no free water visible, no contaminations visible		-
Density at 15 °C	DIN EN ISO 3675 DIN EN ISO 12185	910,0	925,0	kg/m ³
Viscosity at 40 °C	DIN EN ISO 3104	-	36,0	mm ² /s
Calorific Value, lower ³	DIN 51900-1,2 DIN 51900-1,3	36,0	-	MJ/kg
Iodine Value ⁴	DIN EN 14111	-	125	g Iod/100g
Acid Value	DIN EN 14104	-	2,0	mg KOH/g
Flash Point	DIN EN ISO 2719	101	-	°C
Ignition Quality (DCN) ⁶	analog DIN EN 15195	40	-	-
Oxidation Stability at 110 °C	DIN EN 14112	6,0	-	h
Total Contamination	DIN EN 12662:1998-10	-	24	mg/kg
Sulfur Content	DIN EN ISO 20884 DIN EN ISO 20846	-	10	mg/kg
Phosphorous Content (until 31.12.2011)	DIN EN 14107 DIN 51627-6	-	12	mg/kg
Ca + Mg (until 31.12.2011)	DIN EN 14538 DIN 51627-6	-	20	mg/kg
Phosphorous Content (from 01.01.2012) ⁸	DIN 51627-6	-	3,0	mg/kg
Ca Content (from 01.01.2012) ⁸	DIN 51627-6	-	1,0	mg/kg
Mg Content (from 01.01.2012) ⁸	DIN 51627-6	-	1,0	mg/kg
Water Content	DIN EN ISO 12937	-	750	mg/kg