

PLATINAMU FUEL(Mixed fuel of NANO-WATER and DISEL OIL)

- ① Inspections based on Japanese industrial standards.
- ② Platinum Fuels and JIS Standards.
- ③ Evaluation of Platinum Fuel

July 29, 2019

Platinum Water Co., Ltd.

No.	Analysis Item	Unit	Light Oil(Diesel)		Evaluation	Analysis Methods
			Base Oil This base oil conforms to JIS 2204 standards and the Ministry of Economy, Trade and Industry's compulsory standards for light oil.	Platinum Fuel		
01	Reaction	—	Neutral	Neutral	—	JIS K 2252
02	Flash Point	°C	45 or higher	47	Base Oil < Platinum Fuel	JIS K 2265-3
03	Kinetic Viscosity	mm/s	2.0 or more	1.37	Base Oil < Platinum Fuel	JIS K 2283
04	Pour Point	°C	-20 or lower	-37.5	Base Oil < Platinum Fuel	JIS K 2269
05	Carbon Residue	%	0.1 or less	<0.01	Base Oil < Platinum Fuel	JIS K 2270
06	Moisture	%	—	<0.1	—	JIS K 2275
07	Ash	%	—	0.01	—	JIS K 2272
08	Total Sulfur	%	0.0010 or less	0.0005	Base Oil < Platinum Fuel	JIS K 2541
09	Higher Calorific Power	kJ/kg	45.390	46.180	Base Oil < Platinum Fuel	JIS K 2279
10	Higher Calorific Power	kal/kg	10,843	11,030	Base Oil < Platinum Fuel	JIS K 2279
11	Lower Calorific Power	kJ/kg	42.14	43.090	Base Oil < Platinum Fuel	JIS K 2279
12	Lower Calorific Power	kal/kg	10,066	10,290	Base Oil < Platinum Fuel	JIS K 2279
13	Hydrogen	%	—	13.67	—	JIS K 8819
14	Density(15°C)	g/cm ³	0.86 or less	0.80	Base Oil < Platinum Fuel	JIS K 4416
14	Mass fraction	%	Nano Water 42.7%		—	—
			Light Oil 52.3%		—	—
			Total 100.0%		—	—
15	Volume fraction	%	Nano Water 48.0%		—	—
			Light Oil 52.0%		—	—
			Total 100.0%		—	—

JIS(Japanese Industrial Standards) is a national standard established under the Industrial Standardization Act (Showa 24). According to Article 2 of the Industrial Standardization Act, "industrial standardization" is to unify or simplify the following matters nationwide, and "industrial standard" shall mean the standard for industrial standardization. The following matters include (1) types, models, shapes, dimensions, structures, equipment, quality, grade, components, performance, durability or safety, (2) production methods, design methods, drafting methods, usage or work methods or safety conditions related to the production of industrial products, (3) types of packaging, models, shapes, dimensions, structures, performance or grades or packaging methods, (4) methods of testing, analysis, appraisal, inspection, examination or measurement, (5) Technical terms, abbreviations, symbols, codes, standard numbers or units, (6) and the design, enforcement method or safety conditions of buildings and other constructs.