

Petroleum (Mandatory Blending of Anhydrous Ethanol with
Unleaded Petrol) Regulations, 2013

IT is hereby notified that the Minister of Energy and Power Development after consultation with the Zimbabwe Energy Regulatory Authority has, in terms of section 57(1) of the Petroleum Act [*Chapter 13:22*], made the following regulations: —

Title

1. These regulations may be cited as the Petroleum (Mandatory Blending of Anhydrous Fuel Ethanol with Unleaded Petrol) Regulations, 2013.

Interpretation

2. In these regulations —

“anhydrous ethanol” means denatured ethanol with a minimum purity of 99.3% that complies with ZWS962 (the parameters of which are specified in Part I of the Schedule) which is used for blending with unleaded petrol for use as automotive spark ignition engine fuel;

“blending facility” means a facility where blending of anhydrous ethanol with unleaded petrol is carried out;

“ethanol blend” means the product that is the result of blending unleaded petrol with anhydrous ethanol;

“ethanol blend grade E5” means the ethanol blend that complies with ZWS964, the parameters of which are specified in Part II of the Schedule;

“licensed ethanol blender” means a production licensee who is licensed to blend anhydrous ethanol with unleaded petrol;

“licensed ethanol producer” means a production licensee who is licensed to manufacture and produce anhydrous ethanol for mandatory blending with unleaded petrol in joint venture with the Government of Zimbabwe;

“unleaded petrol” means unleaded petrol that complies with ZWS753;

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“ZWS” stands for “Zimbabwe Standard”, being the recognised international acronym that prefixes standards designations issued by the Standards Association of Zimbabwe.

Application

3. These Regulations shall apply to unleaded petrol imported into Zimbabwe by rail or pipeline.

Mandatory blending requirements

4. (1) No procurement licensee or wholesale licensee shall sell unleaded petrol, unless the unleaded petrol has been blended with a minimum of five *per centum* (5%) locally produced anhydrous ethanol, being ethanol blend grade E5, which is produced by a licensed ethanol blender.

(2) No person other than a licensed ethanol blender shall blend anhydrous ethanol with unleaded petrol.

(3) No licensed ethanol blender shall purchase anhydrous ethanol for blending purposes except from a licensed ethanol producer.

(4) No licensed ethanol blender shall blend anhydrous ethanol with unleaded petrol except at a facility specified in the blender’s licence.

Certificates, returns, records and inspections

5. (1) Every licensed ethanol producer shall, for every batch of anhydrous ethanol supplied to a licensed ethanol blender, furnish to the blender, a quality assurance certificate certifying that the anhydrous ethanol complies with the parameters that are specified in Part I of the Schedule.

(2) Every licensed ethanol producer must submit to the Zimbabwe Energy Regulatory Authority, within seven days of the end of each calendar month, a return specifying—

- (a) the total volume of anhydrous ethanol produced; and
- (b) the names of every licensed ethanol blender to whom anhydrous ethanol was sold and the volumes sold to each of them;

in the calendar month in question.

(3) Every licensed ethanol blender must submit to the Zimbabwe Energy Regulatory Authority, within seven days of the end of each calendar month, a return specifying—

- (a) the total volume of anhydrous ethanol purchased; and
- (b) the names of every licensed ethanol producer from whom the anhydrous ethanol was purchased; and the volume of anhydrous ethanol purchased from each of them; and
- (c) the volume of each grade of ethanol blend produced;

in the calendar month in question.

(4) Every licensed ethanol producer and licensed ethanol blender must keep records in support of the information furnished under subsections (1), (2) and (3) for a period of not less than three years from their origination, and make such records available for inspection on demand during normal working hours to any inspector of the Zimbabwe Energy Regulatory Authority.

Fixing of price of anhydrous ethanol

6. (1) After having given the interested licensees at least 30 days' notice, of its intention to do so, the Zimbabwe Energy Regulatory Authority shall fix the price of anhydrous ethanol after consultation with the Minister.

(2) No licensed ethanol producer shall sell anhydrous ethanol to a licensed blender in excess to the price fixed under subsection (1).

Offences and penalties

7. (1) Any person who contravenes section 4, 5 or 6(2) shall be guilty of an offence and liable to a fine not exceeding level nine.

(2) For the avoidance of doubt, it is declared that sections 49 and 62 of the Criminal Procedure and Evidence Act [*Chapter 9:07*], shall apply to any batch of anhydrous ethanol or ethanol blend that is the subject matter of a prosecution for any offence under subsection (1).

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SCHEDULE (Section 3)

PART I

ANHYDROUS FUEL ETHANOL PRODUCT SPECIFICATIONS
(ZWS962)

PROPERTY	UNITS	METHOD	MIN SPECS	MAX SPECS
APPEARANCE	—	VISUAL	CLEAR AND FREE FROM SUSPENDED IMPURITIES	
COLOUR	—	VISUAL	WATER WHITE (TYPICAL)	
DENSITY AT 20 DEG C	KG/L	D 1298	—	0.796
ETHANOL CONTENT, MIN % VOLUME	% VOL	D5501	99.3	—
METHANOL	% VOL	—	—	0.5
TOTAL ACIDITY AS ACETIC ACID	MG/L	D1613	—	56
pH _e —	D6423	6.5	9	
DISTILLATION	DEG C	D86	—	—
I.B.P	DEG C	D86	77 TYPICAL	—
D.P	DEG C	D86	80 TYPICAL	—
SULPHUR	% MASS	D4294	—	0.003
SOLVENT WASHED GUM	MG/100ML	D381	—	5
CHLORIDES	MG/L	D7328	—	8
COPPER	MG/KG	D1688	—	0.1
WATER CONTENT	% VOL	D6304	—	0.5

PART II

E5 UNLEADED—PRODUCT SPECIFICATIONS (ZWS964: PART I)

PROPERTY	UNITS	METHOD	MIN SPECS	MAX SPECS
APPEARANCE	—	VISUAL	BRIGHT AND CLEAR	BRIGHT AND CLEAR
COLOUR	—	VISUAL	YELLOW	YELLOW
DENSITY AT 20 DEG C	KG/L	D1298	0.710	0.785
OCTANE NUMBER, RESEARCH (RON)	—	D2699	93.0	—
OCTANE NUMBER, MOTOR(MON)	—	D2700	83.0	—
LEAD CONTENT	gPb/L	D3348	—	0.008

EXISTENT GUM	MG/100ML	D381	—	4
DISTILLATION	—	D86	—	—
I.B.P	DEG C	—	—	REPORT
10% (V/V) EVAPORATED	DEG C	—	—	65
50% (V/V) EVAPORATED	DEG C	—	77	115
90% (V/V) EVAPORATED	DEG C	—	—	185
% EVAPORATED AT 70 DEG C	% VOL/VOL	—	REPORT	REPORT
F.B.P	DEG C	—	—	215
RESIDUE	% VOL/VOL	—	—	2.0
RVP AT 37.8 DEG C	kPA	D323	45	75
SULPHUR CONTENT	% MASS	D1266	—	0.05
COPPER STRIP CORROSION (3HRS @100 DEG C)	—	D130	—	1.0
MERCAPTAN SULPHUR	% MASS	D3227	—	0.0015
TOTAL ACIDITY	MGKOH/G	D664	—	0.03
ETHANOL CONTENT	% VOL	D4815	4.5	5.5
OXYGEN CONTENT	% MASS	D4815	1.75 TYPICAL	—
WATER CONTENT	% VOL	D6304	—	0.073