

SPECIFICATIONS

Property	AFRI-1	AFRI-2	AFRI-3	AFRI-4	AFRI-5
RON, min. ⁽¹⁾	91	91	91	91	91
MON, min.	81	81	81	81	81
Lead content, mg/l max. ⁽⁵⁾	5	5	5	5	5
Sulphur content, mg/kg, max.	1000	500	300	150	50
Benzene content, vol%, max.	to be reported	to be reported	5	1	1
Aromatics, vol%, max.	n/a	n/a	n/a	n/a	42
Density at 15°C, kg/m ³ min-max	n/a	n/a	n/a	n/a	725-780
RVP, kPa, max.	n/a	n/a	n/a	n/a	65
Ethanol content, vol%, max. ⁽²⁾	5	5	5	10	10

Property	AFRI-1	AFRI-2	AFRI-3	AFRI-4	AFRI-5
Sulphur content, mg/kg mass, max.	8000	3500	500	50	50
Density at 15°C, kg/m ³ , min - max.	800 - 890	800 - 890	800 - 890	820 - 880	820 - 880
Cetane Index (calculated), min.	42	45	45	45	46
Cetane Number, min.	n/a	n/a	n/a	n/a	49
Polycyclic Aromatic Hydrocarbons (PAH), mass %, max.	n/a	n/a	n/a	n/a	11
Lubricity (HFRR @ 60 °C), micron, max.	to be reported	to be reported	460	460	460
Oxidation stability (Hr) ⁽³⁾	20	20	20	20	20
FAME content, vol%, max.	7	7	7	7	7

1. A higher grade of gasoline may be marketed if required.
2. Imported gasoline to be free from oxygenates.
3. Applicable only to gas oil / diesel containing more than 2 % v/v FAME.
4. In cases of dispute ASTM D3244 / EN ISO 4259 shall be used.
5. No intentional addition of lead.

METHODS

Property	Methods
RON	ASTM D2699 / IP 237 / EN ISO 5164
MON	ASTM D2700 / IP 236 / EN ISO 5163
Lead content	ASTM D5059 / ASTM D3237 / ASTM D3348 / ASTM D3341 / IP 270 / IP 228 / IP 362 / IP 352 / EN 237
Sulphur content ⁽¹⁾	ASTM D2622 / ASTM D5453 / ASTM D4294 / IP336 / EN ISO 20846 / EN ISO 20847 / EN ISO 20884
Benzene content	ASTM D5580 / ASTM D5443 / ASTM D3606 / ASTM D6730 / ASTM D4815 / EN 12177 / EN 238
Aromatics	ASTM D1319 / ASTM D5580 / ASTM D5443 / EN ISO 22854
Density ⁽²⁾	ASTM D1298 / ASTM D4052 / IP 160 / IP 365 / EN ISO 3675 / EN ISO 12185
RVP	No alcohol: ASTM D323 / IP 69 / ASTM D5191 / ASTM D4953 / EN 13036-1 With alcohol: ASTM D4953 / EN 13036-1
Ethanol content	EN 1601 / EN 13132 / ASTM D4815 / EN ISO 22854 / EN 14517 / EN 1601 / EN 13132

Property	Methods
Sulphur content ⁽¹⁾	ASTM D2622 / ASTM D5453 / IP336 / ASTM D4294 ⁽¹⁾ EN ISO 20846 / EN ISO 20884 / EN ISO 13032
Density ⁽²⁾	ASTM D4052 / D1298 / IP 160 / IP 365 / EN ISO 3675 / EN ISO 12185
Cetane Index	ASTM D976 / ASTM D4737 / EN ISO 4264
Cetane Number	ASTM D613 / ASTM D6890 / ASTM D7668 / ASTM D 7170a / IP 41 / EN ISO 5165 / EN 15195
Polycyclic Aromatic Hydrocarbons	IP391 / ASTM D2425 / EN 12916
Lubricity	ISO 12156-1
Oxydation stability	EN 15751
FAME content	EN 14078

1. In case of dispute test method ASTM D5453 shall be used.
2. In case of dispute test method ASTM D4052 shall be used.
3. Appropriate method to be selected for applicable specification measurement range.

