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Bridging Businesses Together

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STANDARD SPECIFICATION OF MAYA, ISTHMUS, OLMECA & ALTAMIRA CRUDE OIL

Petróleos Mexicanos PEMEX – CRUDE OIL TYPES

MAYA

MAYA is a "Heavy" (21 – 22 °API Gravity) and Sour (3.4% Sulfur content by weight) Crude Oil, which produces lower yields of Gasoline and Diesel in simple refineries when compared to lighter crudes. In order to maximize the economic value of this type of crude oil, its processing requires refineries with high conversion units which transform the crude heavy fractions (Residue) into products with a higher value.

ISTHMUS

ISTHMUS is a "Medium" (32 – 33 °API Gravity) and Sour (1.8% Sulfur content by weight) Crude Oil, with good gasoline and intermediate distillates (Diesel and Jet Fuel/Kerosene) yields. The highest economic value of this crude is obtained in refineries with FCC (Fluid Catalytic Cracker) units. Its quality is similar to Arab light crude and Russian Urals crude.

OLMECA

OLMECA is the "Lightest" of the Mexican crude oils (38 – 39 °API Gravity) and Sour (0.73% – 0.95% Sulfur content by weight). Its characteristics make it a good feedstock for lubricants and petrochemicals.

ALTAMIRA

ALTAMIRA is a "Heavy" (15.5 – 16.5 °API Gravity) and Sour (5.5% – 6.0% Sulfur content by weight) Crude Oil. As with Maya crude, Altamira has lower Gasoline and Diesel yields in simple refining schemes compared to lighter crude oils. Its physical properties make it appropriate for asphalt production.

TYPICAL QUALITIES OF PEMEX CRUDE OILS

| CRUDE OIL TYPE | MAYA | ISTHMUS | OLMECA | ALTAMIRA |
|-------------------------------|-------------|-------------|-------------|-------------|
| °API (Gravity) | 21.0 – 22.0 | 32.0 – 33.0 | 38.0 – 39.0 | 15.5 – 16.5 |
| Viscosity (SSU 100 °F) | 320 | 60 | 38 | 1280 – 1750 |
| Water & Sediments (% Volume) | 0.5 | 0.5 | 0.5 | 1.0 |
| Sulphur (% Content By Weight) | 3.4 – 3.8 | 1.8 | 0.73 – 0.95 | 5.5 – 6.0 |
| Reid Vapor Pressure (psi) | 6.0 | 6.0 | 6.2 | 3.0 |
| Pour Point (°F) | – 25 | – 35 | – 55 | 32 |