

# STANDARD SPECIFICATION OF SULPHUR

## Sulphur

**Color:** Bright yellow when solid (No dark particles visible)

**Purity:** 99.8% by weight minimum, dry basis.

**S Content:** 10 ppm by weight, maximum (0.01%)

**Moisture Content:** 0.60% by weight maximum

**Ash:** 300 – ppm – by – weight, maximum (0.03%)

**Organic matter:** 500 ppm by weight, maximum (0.05%)

**Size:** 2mm – 6mm

**Bulk Density:** Minimum 1040 Kg/m<sup>3</sup> (loose)

**Bulk Density:** Minimum 1200 Kg/m<sup>3</sup> (packed)

**Acidity as H<sub>2</sub>SO<sub>4</sub>:** 50. ppm by weight, maximum (0.005%)

**Chloride as Cl friability Test:** 5.0 ppm by weight, maximum (0.0005%)

Less than 1% of fines (-50 mesh material) generated under standard stress level;  
Less than 2% fines generated under standard stress level II test;

**Compaction:** Direct shear test and dynamic loading:

Fines generated after direct shear test under static loading of 165 kPa (Approximately 15 meter stockpile) not to exceed 0.2% fines by weight.

Fines generated after direct shear test under dynamic loading at 165 kPa not to exceed 0.5% fines by weight.

Solid Sulfur Granule Size Distribution: Less than 5% to be retained on a 6.3 mm screen.

A minimum of 75% of material to pass through a no. 3 1/2 U.S. screen (5.6mm);

A minimum of 75% of material to be retained on a No. 7 U.S. screen (2.80mm);

Less than 2% to pass through a No. 16 U.S. screen (1.00mm);

Less than 0.5% to pass through a No. 50 U.S. screen (300mm);

**Angle of Repose:** Not less than 25"

