

SUDIC Standard

Sulphur Development Institute of Canada

Premium granular sulphur specification:

Shape and Size

Generally spherical shape between 2 mm and 6 mm

Size Distribution

Less than 5% to be retained on a No. 1/4 U.S. screen (6.3 mm)

Minimum of 75% to pass through a No. 3-1/2 U.S. screen (5.6 mm)

Minimum of 75% to be retained on a No. 7 U.S. screen (2.80 mm)

Less than 2% to pass through a No. 16 U.S. screen (1.18 mm)

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

Moisture Content

Less than 0.5% by weight moisture (bulk average) as produced

Friability Performance

Less than 1% of fines (50 mesh material) generated under standard stress level I friability test

Less than 2% fines generated under standard Stress Level II test

Bulk Density

Not less than 1.040 kg/m³ loose, 1.200 kg/m³ agitated (vibrated)

Compaction

Fines, generated after direct shear test under static loading of 165 kPa (approximately 15 meters 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

Angle of Repose

Not less than 25°

Other

Chemical composition must not be altered from the feedstock

Chemical Composition except for moisture and entrained gases