



ROYAL GLOBAL ENERGY

RGE's core business Oil, Gas, Refining and Petrochemicals

Product Name: PURIFIED TEREPHTHALIC ACID (PTA)		
PARAMETER	SPECIFICATION	METHOD
Appearance	White, free-flowing crystalline powder, free from visible contamination.	Visual Inspection
Acid Number	675 +/-2 mg KOH/g	Auto Titrator
Ash	6 ppm w/w max	Gravimetric - Ignition in furnace 800°C
Total Significant Metals (Co, Cr, Mo, Mn, Ni, Ti)	4 ppm w/w max.	Inductively Coupled Plasma ICP - AES
Iron Fe	1 ppm w/w max	Inductively Coupled Plasma ICP - AES
4-Carboxybenzaldehyde (4-CBA)	25 ppm w/w max	High performance Liquid Chromatography - HPLC
p-Toluic Acid + 4-CBA	190 ppm w/w max	High performance Liquid Chromatography - HPLC
Moisture	0, 2% w/w max	Karl Fischer Titration
Color in 2 Molar KOH solution	10 Hazen max	Color Comparator
b* (Color)	1,2 max	Color View - BYK Garden
Median Size Particle	115 +/-20 microns	Laser Diffraction
Millipore	0,9 min	Color View - BYK Garden