

HEAVY MINERAL SANDS

Services and fields of expertise

As an independent mineral services laboratory, PMC is well equipped to provide mineralogical characterization, data evaluation and bench-scale separation and concentration testing for the mineral sands industry.

Our team of highly experienced mineralogists and metallurgists, having more than 30 years of experience in mineral sands, will find a custom solution to fit the needs of your project

TIMA & AMICS

Provide highly detailed mineral mapping of individual particles to represent components, associations, alterations and textures

Newer technology using similar methods to QEMSCAN /MLA

SEPARATION & CONCENTRATION

PMC has a variety of techniques for separation and concentration of valuable minerals

Gravity

Traditional sink/float test using HLS
Wilfley-Holman shaking table to separate into heavies or lights based on density and particle size. Provides basis for gravity circuit design

Magnetic and electrostatic

Induced roll and Frantz isodynamic separators utilizing natural discrepancies in magnetic susceptibility or conductivity

Froth flotation

Utilize differences in surface chemistry properties to remove sulphide particles, such as pyrite

THMSCAN

Whole particle chemistry measured for individual particles providing elemental averages.

Textural variances and inclusions are lost and only the overall particle is provided

GLOBAL EXPERIENCE

Australia, United States of America, Canada, South Africa, Kenya, Madagascar,

MINERAL CHARACTERIZATION

TIMA & AMICS or THMScan



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