

Platinum Group Metals

Platinum Group Metals (PGMs) are found within layered ultramafic/mafic intrusions in association with nickel–copper sulphides. They commonly form in stratified layers or ‘reefs’ that can extend for tens of kilometres or in podiform chromite bodies in ophiolites, Alaskan–type intrusions and as by–products from nickel–sulphide mining. PGMs comprise platinum (Pt), palladium (Pd), rhodium (Rh), iridium (Ir), ruthenium (Ru) and osmium (Os) and tend to occur in mineral deposits together as assorted alloys rather than as single element deposits.

These metals have major commercial significance and are extremely valuable as alloys for use in a variety of industries including jewellery, medicine and dentistry, electronics and as catalytic converters in the motor industry because of their inert character, high–temperature stability and electrical properties.



SRK ES offers:

Experience in exploration for PGM deposits, having worked extensively on the world–famous Skaergaard intrusion in Greenland and the Kondyor and Norilsk deposits in Russia. SRK ES has completed exploration sampling and drilling programmes, target generation and project evaluations on deposits in Mauritania, Guinea, Sierra Leone, South Africa, Norway and Sweden.

Knowledge of the specific and varied geological settings that host PGMs. Investigation into the multiple phases of PGM mineralisation and their cyclicity is incorporated with the structural controls on mineralisation and the deposit’s morphology to produce a robust deposit model. SRK ES can combine the knowledge of its staff with associate academic experts and university facilities around the globe in order to detail the controlling factors on potentially economic accumulations of PGMs.

Expertise in dynamic exploration by developing exploration programmes that can evolve and adapt as new data is received. Exploration methods are tailored and applied to the deposit style and particular investigation techniques are recommended for clients based on the level of work previously conducted, the type of new data needed and the available budget.

Innovation in the latest drilling and analysis methods. SRK ES has managed a number of sonic drilling projects, most relevant of which was at the Kondyor PGM placer deposit in eastern Russia. SRK ES is continually expanding relationships with analytical companies in order to be at the forefront of developments in portable x–ray fluorescence (XRF) analysis, laboratory assay methods and technical software packages.

With continuing advances in technology and the growing number of uses for PGMs, SRK ES is well placed to serve exploration companies wanting to make new discoveries and develop existing deposits to meet global demand.

To find out more about our technical services or discuss your project specific needs, please contact us;



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