



**METALS &
MINERALS**

METALS & MINERALS

AmSpec has been servicing the mining, shipping, refining, and smelting industries in Australia, Europe, and Southeast Asia for many years. We specialize in the inspection and sampling of bulk, containerized and liquid cargos at mine sites, warehouses, refineries, and ports.

AmSpec *YOUR PRODUCT, OUR EXPERTISE*

OUR SERVICE LOCATIONS

AmSpec can provide these inspection and sampling services globally through our international network and are renowned within the Australian mining industry for being able to service remote locations with our marine surveyors, inspectors, and samplers.



OUR CAPABILITIES

With the global demand for more renewable and sustainable energy, AmSpec has decades of experience in inspecting and sampling green metal commodities such as battery metals, precious metals, base metals, industrial mineral sand, iron ores, etc.

AmSpec can provide conformity assessment services to conduct impartial evaluations, audits, inspections, and sampling against different international, national standards and regulations.

We give our customers the confidence that a product, process, system, or person, meet specified requirements in the Metals and Minerals Trading industry.

AmSpec represents the interests of many of the largest and most respected global trading, mining, refining, and smelting companies through the provision of services that include Stockpile Inventory Management, Due Diligence, Warehouse Stock Management, Vessel WSMD Superintending Services, Fit to Load, other related Marine Surveys, etc. We can also provide customers with a bespoke service depending on our customers needs and specific requirements.

Our goal is to provide the highest level of inspection and sampling services, from Pit to Port to Market.

AMSPEC METALS & MINERALS SERVICES

MINE SITES/WAREHOUSES/REFINERIES/SMELTERS:

- + Due Diligence & Warehouse Stock Management
- + Stockpile Inventory Management
- + Stockpile Verification (Visual/Quantified*)
- + Stockpile Pre-Shipment Inspection & Sampling
- + Supervision of Container Loading and WSMD process
- + Auditing and Systems Certifications of mine site sampling and testing process
- + Supervision Weighing and Mechanical/Manual Sampling Services
 - o (Rotaboxes, Conveyor belt, Trucks, Trains, Stockpiles, etc)
- + Contamination Investigation and Sampling
- + Inspections of Copper Cathodes*
- + Superintending of Weighing and Sampling of Gold & Silver Dore bars to Bullions - Weighing before and after Melting*

** Restricted / Available at certain locations. Please contact and check with AMSPEC.*

WSMD – Weighing, Sampling, Moisture Determination.



VESSEL SUPERVISION & MARINE SERVICES:

- + Fit to Load, Hold cleanliness and Draft Surveys
- + Vessel Loading & Discharge WSMD Supervision
- + Mechanical/Traditional Sampling and Sample Preparation
- + Supervision of Shore Weighing of Rotabox/Trucks/Train Wagons
- + Rotabox Pre-shipment Sampling and Sample Preparation
- + Rotabox Weighing and Sampling Supervision
- + Contamination Investigation and Sampling
- + Cargo Loss Prevention, Cargo Damage, and P&I, etc.
- + Supervision of Moisture Determination, Sizing Analysis and Sample Preparations services

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WSMD – Weighing, Sampling, Moisture Determination.

MINERALS COMMODITIES:

- + Alumina industry (bauxite, caustic soda liquid)
- + Battery Metal industry (Spodumene Ore, Nickel, Cobalt)
- + Base Metal industry (Copper, Nickel, Zinc, Lead, Gold Concentrates, etc)
- + Precious Metal industry (Gold, Silver, Palladium, etc)
- + Industrial Mineral Sand (Titanium Dioxide, Ilmenite, Rutile, Silica Sands, etc.)
- + Fertilizer industry (Sulphur, Ammonia Nitrate, Sodium Cyanide briquettes, etc.)
- + Solar Salt Industry (industrial)
- + Iron Ores, Manganese ore, Chrome ore, etc.



METALS COMMODITIES :

- + Gold & Silver dore bars & bullions
 - + Zinc Ingots
 - + Lead Ingots
- + Copper Cathodes
- + Gold/Silver Dores
 - + Briquettes
 - + Anodes
 - + Blisters
- + Steel Pipes
- + Coil etc.

