



## COMPANY BACKGROUND:

Agescan Internationals (ASI), a well established Canadian Company with over 15 plus years extensive experience and capability in manufacturing, machining, finishing and sales of tungsten and specialty alloy materials and products. ASI maintains significant production capacity while expanding to support various industries such as defense, aerospace, medical, automotive, petroleum and industrial customers with our high quality tungsten and various alloy materials and finished products.

## WHY ASI IS UNIQUELY QUALIFIED?

If you are you looking for truly high quality, industry standards and military specifications compliant products, ASI team is the most qualified to serve defense, aerospace, medical and other industries with precision manufactured materials and products. We produce our tungsten products by ourselves – from the metal powder right through to the finished product. As for our input material, we use only the purest tungsten oxide. This ensures that you benefit from a very high level of material purity.

ASI maintains strict manufacturing standards and controls from raw materials to manufacturing including lot and batch control in full compliance with specifications and standards such as ISO, MIL-T-21014, MIL-C-14550, MIL-STD-130, MIL-STD-105, MIL-I-45208, MIL-STD-810, MIL-Q-9858, OEM Specifications and other applicable specifications as required by contract.

## INDUSTRIES SERVED

ASI Team prides ourselves in supplying products to a wide array of industries for use in diverse applications, including highly advanced defense & aerospace alloys and systems requirements, medical diagnostic equipment, automotive and other specialized products and systems design requirements.

Physical properties such as melting point, vapor pressure, density, electrical conductivity, thermal conductivity, thermal expansion, heat capacity, electron work function, and Mechanical properties such as strength, fracture behavior, creep resistance, ductility, and Chemical properties such as corrosion resistance, etchability, and Machinability such as cutting processes, formability, weldability makes our tungsten and specialty alloy materials uniquely qualified for the following industry applications.



## **DEFENSE & AEROSPACE**

Defense components such as spheres, cubes, and various projectile shapes are manufactured with precision and cost effectively with the use of our unique alloy materials for hypervelocity armor penetrating applications. Properties such as elongation, ultimate tensile strength, and hardness can be varied by manufacturing technique and additives. Tungsten and specialty alloy High-density materials are used as aerospace alloys, combining mechanical strength and easy machinability in full compliance with the Military, Federal, ASTM, OEM and other applicable specifications and standards. Because tungsten is so dense, it is possible to reduce the physical size and volume of components, offering greater control of weight distribution. Aerospace alloy applications include but not limited to rotor blades, propellers, inertial systems, fluid control systems, bucking bars, trim weights, Aircrafts balance weights, Aircraft ballast weights, Anti-vibration metals, Helicopter Blade Weights, Instrumentation components, Missile components, Vibration dampening components, Ordnance, Airplane Rudders and other parts and systems.

## **SECURITY EQUIPMENT**

Our Tungsten and specialty alloy materials are ideal and used extensively in ordnance applications and large container inspection devices. They are also used in airport security in package, luggage and personal x-ray devices such as employed at the airports by TSA, public buildings, etc.

## **MEDICAL**

Our specialty tungsten high density alloy materials are widely used for radioactive source containers, gamma radiography, shields, collimators and shielding (x-ray and radiation therapy) in cancer therapy machines and other oncology treatment systems and instruments including but not limited to syringe protection for radioactive injections, medical isotope production, transport and containment, and a variety of other radiation shielding applications.

## **PETROLEUM AND GAS WELLS**

The radiation shielding properties of our specialty tungsten alloys provides unique properties to protect sensitive equipment used to detect oil and natural gas deposits. High-density alloys are also used for casing material in down hole logging where casings must be heavy enough to sink through mud and strong enough to withstand intense hydrostatic pressure. We offer several tungsten and heavy alloys for use as counterweights for logging tools. Tungsten alloys can be used in a wide range of applications for the oil and gas industry, including well logging equipment, tungsten



drilling components, well logging casing, nuclear logging equipment, and directional drilling equipment.

## **AUTOMOTIVE**

Tungsten products are widely used in the racing industry and also in the automotive industry as a whole, particularly in tooling and die cast applications. Skid plates made from our rugged tungsten alloys offer greater protection than traditional materials. Chassis weights (designed for balance and lowering the car's center of gravity) made from high-density alloys take up significantly less volume than their lead counterparts.

## **MACHINING & TOOLING**

Our high-density tungsten and alloy materials are used for boring bars, grinding quills, tool extensions and a host of other machining applications. Benefits include: reduced vibration, resistance to breakage and chipping, less down-time and ease of finishing. Our tungsten alloys and composite materials are used for electrical discharge machining (EDM) and electrochemical machining (ECM) electrodes. These materials are manufactured by the press, sinter, and infiltrate process; adhering to strict quality checks every step of the way. You can rely on the quality of our tungsten products to provide consistent, homogeneous materials that yield high and even burning rates

## **OUR SERVICES**

We at ASI maintains strict compliance to Military, Federal, ASTM, OEM Specifications and other requirements stipulated by DOD and other customers in the contracts. Our defense & aerospace and medical industry requires rigorous levels of traceability and quality control in all aspects of manufacturing and supply chain. Customers can be assured that we meet or exceed all the needs of these particular industries, by having and maintaining excellent production facilities, which are fully accredited to ISO9001 and AS9100 standards.

In addition, we have over 15 years of experience producing high quality tungsten components and systems, expertise to machine these parts to very tight tolerances and meeting a broad range of customer requirements. Our tungsten and speciality alloy components can be produced in small or large run quantities for long production runs. We at ASI offers our customers the option to buy either finished components or raw tungsten blocks to suit their needs.

**We protect our customer's intellectual property information in strict compliance with the defense & aerospace industries established standards and requirements; and distribute or release any information on "Need-to-Know" basis only.**

***We look forward to serving your today's and future requirements with precision and cost effectively with on time delivery to support your production requirements.***

**Defense & Aerospace:**



**Security Equipment:**



**Medical**



**Petroleum and gas drilling**



**Automotive**



**Machining and tool**



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