



# GLSTRADE

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HIGH QUALITY RM FOR DEFENCE & AEROSPACE

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# About

GLS Trade & Akash provides a wide range of quality raw materials, for the Israeli Defence and Aerospace industry.

Our Clients are Approved vendors of the Israeli Defense sector in India and israel. We manage logistics and distribute the quality raw material from Jindal Group, Hindalco and Akash aluminium company (for small quantity and special alloys import raw material from Russia and South Korea.

Committed to Quality first we verify the product we supply by using authorized laboratories both in India & in Israel to meet the highest standards of our valued customers..



# Services

With a wide logistic network and quality assurance points including lab testing, GLS Trade & Akash provides your organisation with an end to end solution.

From sourcing vendors that will meet your highest quality standards - Through our finest cutting facility - and best approved ISO 17025 Laboratories - To delivering the RM to the factory production floor, we are managing it all on your behalf.



# Metals and Alloys

## Aluminum alloys

Is a composition consisting mainly of aluminum to which other elements have been added. The alloy is made by mixing together the elements when aluminum is molten (liquid), which cools to form a homogeneous solid solution. .

## Special alloys

Special Alloys comprise a broad group of materials that deliver properties for more demanding applications, use more exotic or expensive materials, or require special processes of heat treatments.

## Mild Steel

An alloy of iron with carbon, usually with other elements, such as nickel and cobalt. The other elements add a desired quality to the steel, such as hardness or tensile strength.

## SS alloys

Stainless steels are iron alloys with a minimum of 10.5% chromium. Other alloying elements are added to enhance their structure and properties such as formability, strength and cryogenic toughness. The main requirement for stainless steels is that they should be corrosion resistant



## Tungsten alloy

Tungsten Has the highest melting point and lowest vapor pressure of all metals, and at temperatures over 1650°C has the highest tensile strength. It has excellent corrosion resistance and is attacked only slightly by most mineral acids.

# RM Supply Network

Using the biggest RM vendors in india GLS & Akash has a production capacity that supports Israel's' Defence and Aerospace operations.

## Jindal Group

With 4 decades of industry experience Jindal group is one of India's largest producer of Stainless Steel, Aluminum, Steel & Special Alloys.



## Hindalco

**Hindalco** is the world's largest aluminum rolling company and among the biggest producers of primary aluminium in Asia.



## Akash aluminum

(AS9120B and ISO 9001:2015 certified company ) and authorized distributor of high range of materials



Products Chart	ALUMINIUM	Stainless Steel	Special Alloys
<b>Product Types</b>	SHEETS, COILS, PLATES, CUT BLOCKS, EXTRUSIONS, ALUMINIUM ALLOY FORGING & CASTINGS	SHEETS, COILS, PLATES, CUT BLOCKS, EXTRUSIONS, SS ALLOY FORGING & CASTINGS	SHEETS, PLATES, CUT BLOCKS, EXTRUSIONS
<b>Grades</b>	2XXX, 5XXX, 6XXX, 7XXX	300, 400 SERIES	4130, 4140, 4340, ARMOR STEEL ETC.. SERIES
<b>Temper</b>	T6, T651, H32, T7351, O, T4	-	
<b>Sizes</b>	SHEETS - 0.4MM TO 5MM	SHEETS - 0.4MM TO 5MM	SHEETS - 0.4MM TO 5MM
<b>Plates</b>	6MM TO 400MM	6MM TO 400MM	6MM TO 400MM
<b>Extrusions</b>	RODS, PROFILES, SQUARES, TUBES, HEXAGON	RODS, PROFILES, SQUARES, TUBES, HEXAGON	RODS, PROFILES, SQUARES, TUBES, HEXAGON
<b>Standards</b>	ASTM, AMS, AMS-QQ-A, EN, IS	ASTM, AMS, EN, IS	ASTM, AMS, EN, IS

# CUTTING & SHEARING FACILITY

- PLATE CUTS FROM 6 MM TO 700 MM
- SHEETS SHEARING FROM 0.5 MM TO 5.0 MM
- LAMINATION MACHINE
- LASER PRINTING MACHINE FOR TRACEABILITY
- VERTICAL & HORIZONTAL CUTTING MACHINE (FRIGGI AMERICA) ITALY



## 2MF TS HS CUTTING SLABS VIDEO



# QA & International Standards

Approved Qualify ISO 17025 Laboratories in India & Israel



## CHEMICAL COMPOSITION TEST

*3 methods Chemical Testing.*

### 1. Spectro

Equipped with two arc/spark Optical emission Spectrometers capable of high precision application, the step towards a flaw less product in chemistry.

### 2. ICP – OES

Equipped with Perkin Elmer ICP – OES capable of analyzing trace Elements in ppm & ppb levels.

### 3. Traditional WET method

Equipped with C & S Apparatus, Furnace ( up to 1000 deg C ), Ovens, Electrolysis apparatus for estimation of Copper & Lead, pH meter, Conductivity meter etc. to give the reliable results to customers..

# QA & International Standards

## MECHANICAL TESTING

*2 methods of mechanical Testing.*

### 1. Universal testing Machine

( 60 tons & 100 tons ) is for ascertaining the strength and deformation of all kinds of materials, such as steel and other materials in the form of rods, sheets, wires, tubes, chains, and so on. Plastics and wood can also be tested it enables reliably to test the quality of the materials and also the weld joints.

### 2. Tensometer (A Kudale Enterprises)

for sub size specimens tensile testing, with additional accessories having many other tests like cupping tests, bending, spring rating, rubber tensile testing, wire testing etc..

## OUR TESTING ABILITIES:

CHEMICAL TESTING

MECHANICAL TESTING

IMPACT TESTING

METALLOGRAPHY

OIL TESTING

WATER TESTING

CORROSION TESTING

ROHS TESTING

PLASTIC/RUBBER TESTING



**ISO 17025**  
**ACCREDITED**  
**LABORATORY**

# Thank You

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**akash**  
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