



NOVA LAB

Smelting Solutions

COMPANY PROFILE

NOVA

LABORATORIES & SMELTING SOLUTIONS

Nova Labs are one of the leading Suppliers of Fire Assay Furnace Building & Relining Services.

VISION

To ensure all Assay laboratories are fitted with customized & quality Furnaces & equipment to best suit their operational needs

MISSION

To provide smelting solutions & provide access to affordable goods & services to local trade & commercial customer in South Africa & around the world.

WHO WE ARE

Nova Laboratories & Smelting Solutions (Nova Labs) is one of the leading Suppliers of Fire Assay Furnace Building & Relining Services. With our 30 years of experience & knowledge, we provide superior quality & services to our Clients.

We provide Goods & Services to the South African Market, Neighboring African Countries & abroad.

ABOUT US

Nova Labs provides 30 years plus of Fire Assay & Smelt House furnace building & relining knowledge to our customers. Our high standard & superior quality products & services has made us one of the most competitive Furnace rebuilding, relining & furnace supply companies in the country & abroad

We are situated in Meyerton, Gauteng, South Africa. Since the conception of Nova Labs, business increased within SA, Zimbabwe, Zambia, Namibia & Australia.

- ① Fire Assay & Smelt house requisites.
- ① Furnace Rebuilding & Refurbishment
- ① Relining of gold smelters
- ① Silicon Carbide Globars / Heating Elements
- ① SiCarb Globars - Heating Elements
- ① Clay Graphite Crucible
- ① Pulverisers – Vertical spindle & Mill bowl type
- ① Fire Assay Equipment & Consumables
- ① Thermocouples



*Nova Labs supply various types of Equipment & Consumables to various industries such as; **General Fire Assay Industries, Laboratories & Smelt House industries.***

OUR PRODUCTS



FUSION FURNACE

Fusion Furnaces are used for the smelting of Gold & Platinum at 1200 degrees. Nova Labs install new & also rebuild current furnaces to customer requirements. We further provide all the fire assay construction & building.



PULVERISERS

Pulverisers are used to pulverize (Grind/Mill) the product into a powder or dust texture. Pulverisers can Grind product up to 75 microns.



CLAY GRAPHITE CRUCIBLES

Clay Graphite Crucibles are mainly used within Induction furnaces for the smelting of various Non-Ferrous metals. However these crucibles can also be used within the normal diesel fired smelting furnaces.



HIGH TEMPERATURE (HT) FURNACE

High Temperature Furnaces runs at 1400°C & is generally used within the platinum divisions.

OUR PRODUCTS



ELEMENTS | GLOBARS

Elements / Globars are used within the fire assay laboratories which are heating elements that consist of hot zones of high density, low permeability, reaction-bonded silicone carbide material, which is resistant to chemical damage and oxidation.



THERMOCOUPLES

Thermocouples are used as a sensor that measures temperature in Furnaces. Nova labs supply all sizes & types of Thermocouples within the Fire Assay industries.



SILICONE CARBIDE CRUCIBLES

Silicone Carbide Crucibles are mainly used within the diesel fired smelter for the smelting of Gold & various Ferrous metals. Nova Labs supplies most of the sizes required within the market.



REBUILDS

Refurbishment & rebuilds of all types of furnaces & kilns.



OUR PRODUCTS CONSUMABLES & EQUIPMENT

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SLAG MOULDS



PULVERISER DISCS



REFRACTORIES



CRUCIBLES



CUPELS



DIESEL / GAS BURNER

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KETTLE SMELTER



CALCINERS



CRUSHERS



CONTROL PANELS



RELINING KITS



FURNACE FLOOR TILES



THANK YOU

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