Ingenious Software for Modern Melt Shops

With fast-paced globalization, for foundries, staying competitive and bringing the cost down is becoming increasingly challenging.

OPTIMIX-ALLOY is software developed with a mathematical programming algorithm to prepare the _most economical charge recipe_ using available raw materials in a foundry.

Why OPTIMIX?

☑ **OPTIMIX** calculates **Lowest Cost Charge Mix Recipe Mathematically Possible,** A study shows that the algorithm gives up to…
- 15% Savings in High Alloyed Steel
- 8% Savings in Non-Ferrous Alloys
- 4% Savings in Cast & Ductile Iron

☑ Cost Saving on **Alloy Addition Calculation**

☑ Cost Saving on **Purchase of Raw Material**

☑ Reduces **Power Consumption** (By reducing hold time)

☑ Helps in finding the economic worth of any scrap and suggests whether we can use it in a recipe or not

☑ Feel **Confident** using **Low-Cost Scrap** available

☑ Faster **Return** On Investment **(ROI)**

OPTIMIX ALLOY

Software to **Optimize** the Charge **Mix**

ELLIPSIS INFOTECH

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So, what does OPTIMIX-ALLOY do?

OPTIMIX Calculates...

Least Cost Charge Mix: Calculates Least Cost Charge Mix from materials available in your foundry. It also gives a comparison with your existing charge

Alloy Addition/Dilution Calculation: Calculates the qty of real-time alloy addition required. It also calculates the qty of liquid metal to be taken out in case of dilution

Find Economic Worth Of the Raw Material (Sensitivity Analysis): We can find the economic worth of our Raw Material to take purchasing decisions

Other Functionalities:

- What-If Analysis Reports
- Integration with spectrometer
- Consideration of Heel (Metal Back to Furnace)
- Planning Campaigns
- Mathematical Formulae Configuration (Like Carbon Equivalent, Nickle Equivalent, etc...)
- Integration with other ERP/Software (Excel/API) for inventory and chemistry
- Purchase Price Trend Charts
- Language/Culture Support

FAQ:- "**How to bring the costs down in a foundry?**"

ANS: Mathematical Programming! It's not just the **most effective** solution, but the **most economical** solution as well!

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