

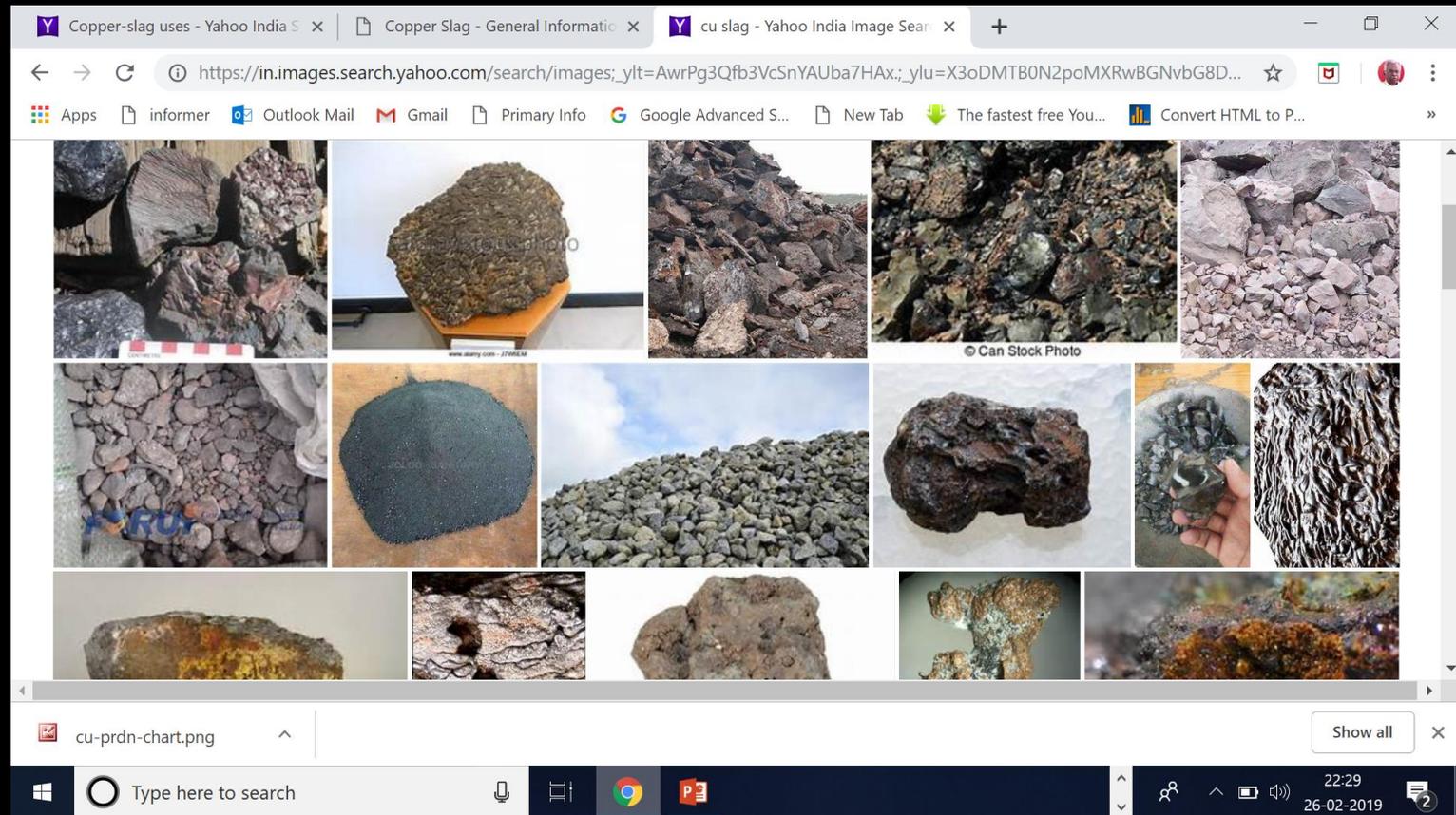
Copper Slag

Presentation by

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Copper slag is a by-product created during the copper smelting and refining process.

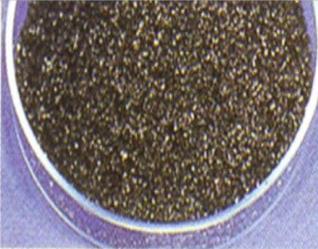
As refineries draw metal out of copper ore, they produce a large volume of non-metallic dust, soot, and rock. Collectively, these materials make up slag, which can be used for a surprising number of applications in the building and industrial fields.



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G1430

Standard Size	Approximate Size	Average Anchor pattern	Normal Application
G 830	500µm-3.35 mm	Above 110µm	Heavily rusted surfaces
G 830E	500µm-2.00 mm	Above 110µm	Heavily rusted surfaces
G 1030	500µm-1.70 mm	70-110µm	Pitted, rusted & removal of old coatings
G 1430	500µm-1.18 mm	60-100µm	Rusting mill scale & removal of old coatings
G 1630	500µm-1.00 mm	60-100µm	Rusting mill scale & removal of old coatings
G 3060	250µm-600 µm	30-60µm	Rusting mill scale & new steel

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Copper Slag : G1430

Product Information

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Copper Production

The conversion of **one kilogram (kg) of copper concentrate** from its in-ground condition (ore) into economic service generates :

an average landscape footprint comprised of 210 kg of mine waste, 113 kg of mill tailings, **2 kg of slag**, and 2.3 kg of sulfur-bearing co-product.

The corresponding air releases per kg of copper include 0.5 kg of carbon dioxide and 0.2 kg of sulfur dioxide.

Copper slag is mainly used for surface blast-cleaning. Copper slag is just one of many different materials that may be used as abrasive grit.

Copper slag can be used in concrete production as a partial replacement for sand. Copper slag is used as a building material, formed into blocks

In Sweden, fumed and settled granulated copper slag from the Boliden copper smelter is used as road-construction material.

In India three copper producers Sterlite, Birla Copper and Hindustan Copper produce around 6-6.5 tonnes of slag at different sites.

Data Base on Copper Slag

www.primaryinfo.com/scope/copper-slag.htm

Copper Slag

Process, Products, Patent, MSDS, Application, Suppliers, Company Profiles, Reports

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at a Glance	Contents on the CD Rom	
an abrasive blasting grit ated slag from metal esses (also called iron	General Information <ul style="list-style-type: none">Copper Slag	Application <ul style="list-style-type: none">Utilization of C

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- Copper slag is a by-product obtained during the production of copper metal, which can be used as pozzolana in the production of cementing materials.
- Recycling copper slag to recover metals has been focused on copper recovery.
- However some copper slag also contains molybdenum in amounts up to 0.4% which is a potential raw material for metal extraction.
- The physical and geotechnical properties of the spent copper slag were first assessed by laboratory tests, including hydraulic conductivity and shear strength tests.
- Copper slag blasting media/grit - is manufactured of the granulated slag of copper refineries, and used for blast-cleaning of metal surface.

Process

- Bio-leaching of copper, nickel and cobalt from copper converter slag by Thiobacillusferrooxidans
- Recycling and Disposal of Copper Scrap
- Effect of copper slag on the hydration of blended cementitious mixtures
- Fabrication of unglazed Floor tiles containing Iranian copper slags
- Recovery of molybdenum from roasted copper slags
- Optimization of copper slag waste content in blended cement production

Product

- Copper Reverberation Slag in roads
- Application of copper slag in geomagnetic archaeointensity research
- Use of waste plastics and copper slag (CS) for low cost bituminous roads
- A Study on the Application of Copper Slag as a Sand Substitute of Sand Compaction Pile
- Testing the accuracy of absolute intensity estimates of the ancient geomagnetic field using copper slag material
- Use of copper slag as construction material in bituminous pavements

Studies

- Copper Reverberation Slag in roads

Questions?

mailto:primaryinfo@gmail.com