



**MESSBAREH**

مسبارة

اولین و بزرگترین

تولید کننده و عرضه کننده دانه های ساینده

( مسباره ، گارنت و ... ) در ایران

The First And Biggest Producer Of Copper Slag Abrasive In Iran



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### Profile :

Messbareh Is The First And Biggest Producer Of Copper Slag Abrasive In Iran .  
Messbareh Was Established In 1994 Under The Authority Of National Iranian  
Copper Industry With The Investment Of Sarcheshmeh Copper Investment Co  
We Produce The Best Fully Processed And Garded Copper Slag ,  
Through The Best Slag Refinery Process By The Use Of The Best Processing  
Machinery . We Use The Raw Material Which Has been Processed From One  
of The Biggest Mines In The Middle east and its done by first Class Machinery.  
Messbareh Facilities Include a Drying And Screening Plant , Railer and Truck  
Loading/Unloading .

With a large raw feed stock Inventory . Messbareh Supplies its Customers  
Abrasive Requirements .

Our Products Have been Approved and been Used By major Shipyards,  
Oil and gas Companies and We have Exported Ten Thousands of  
Ton of Copper Slag to several foreign Lead Companies Around The  
World for the use in Oil Industry.

### What Is Copper Slag Grit ?

Acording to ISO 11126 - 3, copper slag grit is the mineral  
Secondary product of melting copper , which is used for  
Surface preparation in blasting and removing paint, rust  
and mill scales at various degrees based on Swedish  
standard of SIS 055900 .

### Reasons For Using Copper Slag

- 1-Economic Savings                      2-Saves Time
- 3-Not Produce Disease                4- Less Dust
- 5 - Ability To Reuse
- 6 - Increase Sureface Quality Level   7 - Easy Access

### Characteristic Of Copper Slag Grit

- 1 - Less Than %1 crystalline Silica   /   2 - High Hardness
- 3-High Density / 4-Inert / 5-Insoluble / 6-Polyhedral & Sharp Edges

### Application

Oil,Gas & Petrochemical Industry	Fabrication Yards	Marine Industry
Pipelines	Blasting Cabinet Applications	Platforms & Bridges
Tank Farms	Power Plants	Oil Refineries
Shipbuilding & Ship Repair	Cement Industry	Structural Steel Construction Piece Construction

### Packing & Delivery :

Messbareh is available in the following packaging options :

Bulk / 40kg Bags / Two ton jumbo bags / 40kg Two- Layer Bags / 40kg Bags In Jumbo Bags



## Obtained Profile Patterns

The irregular polyhedral shape of copper slag result in an uneven jagged profile . This profile is more effective for paints with low wetting and paints that require higher mechanical attachment .

## Copper Slag & Environment

Reside Obtained From This Material Not Only Harmful For The Environment But It does vjandram makes plants grow up to be better because due to the high permeability of copper slag in air deep soil is displaced .  
Msbareh also due to lack of solubility it can be without fear of environmental pollution .

## How to Select the Appropriate Size

Desired grain size according to the amount of base metal oxide coating roughness and degree of corrosion and staining required to be selected .

## HEALTH AND SAFETY

MESSBAREH Complies with all the health and safety regulations of most countries worldwide.

MESSBAREH is widely recognized as a safe blasting medium, provided, all customary and statutory safety precautions (such as use of protective gear and approved respiratory apparatus ) are followed.

### ISO III 26 & ISO III 27

MESSBAREH Copper Slag (iron silicate) is manufactured to conform to the ISO standards applicable for copper refinery slag abrasive.

Batch control procedures assure strict adherence to quality control measures .

### With Messbareh you will:

*Have a reliable quality product as the raw material source is limitless and one of the best*

*- Have no limitations of order Quantity (Big or Small)*

*- Fast Delivery*

*- Have a WELL PREPARED SURFACE in time!*

## Particle Sizes & Recommended Applications

Particle Size (mm)	Approximate Anchor Pattern(Microns)	Recommended Applications
25 - 30	0.4 - 0.8	Light Treatment of Steel , Aluminium Remove Mill Scale And Metal Constructions Where High Grade of Cleanliness and Light Anchor Pattern is Required .
80 - 100	0.5 - 1.68	General Usage For all Tank Internals as well as Places Where Dust Emissions Are to be kept at low Levels .
0.5 - 2	80 - 100	Pipelines , Tanks Repair , Ship Building & Oil Industry
0.5 - 3	100 - 125	Treatment of heavily corroded steel, concrete surfaces, production platforms, oilfield installations, all marine applications.
1-3 , 2-3	125 - 155	Used For Removal Of Heavy Paint Layers , Rust , Etc

## CUSTOMIZED SIZING

According to the specific requirements of the customer, we can produce Customized product sizing against specific order.

Large quantities may warrant appropriate notice for delivery schedule.

## Technical Specifications of Copper Slag

CHEMICAL ANALYSIS	
CONSTITUENTS	% WEIGHT
Silica ( Combined Silicata )	% 34
Free Silica	% 0.5
Alumina AL2O3	%2
Iron Oxide As Feo	%47 - %54
Calcium Oxide Cao	%6.5
Magnesium Oxide Mgo	%1 - %5
Copper Oxide Cuo	Max % 0.7
Sulphates	%0.02
Chlorides	% 0.003

PHYSICAL PROPERTIES	
PROPERTY	TYPICAL VALUES
Colour	Black
Grain Shape	Angular , Multifaceted
Hardness	6.5 Moh
Specific Gravity at 25C	3.5
Bulk Density at 25C	1.75 Tonnes/m
Conductivity at 25C	4ms/s

# سپاره

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مات ۰/۴ - ۰/۸



مات ۰/۵ - ۱/۶۸



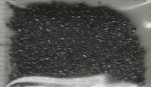
مات ۰/۵ - ۲



مات ۲ - ۴



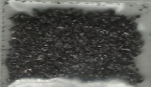
براق ۰/۵ - ۱/۶۸



براق ۰/۵ - ۲



براق ۰/۵ - ۳



براق ۲ - ۳

