From: Feldman-Lehker, Dawn

Sent: 2/26/2015 3:55:09 PM

To: TTAB EFiling

CC:

Subject: U.S. TRADEMARK APPLICATION NO. 77873477 - MAGNESITA - MAGN6002/TJM - Request for Reconsideration Denied - Return to TTAB - Message 3 of 3

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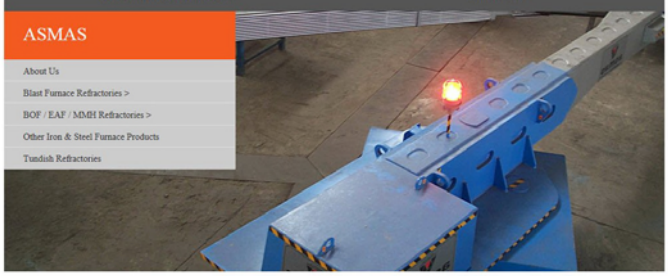
Attachment Information:

Count: 9

Files: mineralt2-1.jpg, mineralt2-2.jpg, Fireclay.jpg, Guidon.jpg, Plicast.jpg, triangle95cmagnesia.jpg, mgo-1.jpg, mgo-2.jpg, mgo-3.jpg



Electric Arc Furnace (EAF) Gunnables - Ferrogun Series

FERROGUN series of materials are hot repair gunning mix products engineered and formulated according to the specific requirements of EAFs. Ferrogun's adherence property and refractoriness result in high performance with reduced refractory cost per ton steel.

Asmaş provides user-friendly, low maintenance automated equipment for gunning applications in EAF's such as Batchguns with or without Robogun or Minscan manipulators including Laser Scanning technology options.

Ferrogun Product Ranges for EAF:

Ferrogun Product Range for EAF:
Ferrogun SP
Ferrogun Q
Ferrogun QP
Ferrogun Gold

Electric Arc Furnace (EAF) Fettling Materials - Ferrofrit Series

FERROFRIT 75D and 77D is a cold repairing material for electric arc furnace bottoms and banks. It is a dry mix, which can be applied by ramming or vibration. Its chemical composition and rapid crusting by temperature ensure high durability against any mechanical wear-out and slag effects.

FERROFRIT 80 HR and 213 HR is a hot repairing fettling material for electric arc furnace bottoms and banks. Its chemical composition and quick sintering properties ensure high durability against any mechanical wear-out and slag effects. Ferrofrit's unique grain size distribution provides excellent density.

Ferrofrit DC-HR is a magnesia - carbon mix, ready for use with high electrical conductivity for hot repairs of DC furnace bottoms. Ferrofrit DC-HR is engineered to have excellent flowability and smooth dispersion during application. The flexibility of the material helps to repair only the eroded areas. Higher productivity in usage reduces refractory consumption and cost. Hardening time is set to be 25 minutes. Selected high quality magnesite and rigid process control result in consistent and superior performance of Ferro DC-HR.

Fettling Product Range:

Ferrofrit 75D
Ferrofrit 77D
Ferrofrit 80 HR
Ferrofrit 213 HR
Ferrofrit DC-HR

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MT. SAVAGE FIREBRICK

17901 Mt. Savage Road NW, Frostburg, MD 21532
PHONE 301-689-1788 FAX 301-689-1798

TECH DATA
Fireclay

CLASSIFICATION: ASTM C-105 (Discontinued) Fireclay

P.C.E. Cone 29 2984°F

TYPICAL CHEMICAL ANALYSIS:

Silica	(SiO_2)	59.9
Alumina	(Al_2O_3)	32.9
Ferric Oxide	(Fe_2O_3 and FeO)	1.97
Titanium Oxide	($Ti0_2$)	1.48
Calcium Oxide	(Ca0)	.57
Magnesium Oxide	(MgO)	.89
Alkalies	($Na_2O+K_2O+Li_2O$)	2.29

NOTE: All data subject to reasonable deviation. FC/01/06

Technical Data

Harbison-Walker Refractories Company
600 Grant Street
Pittsburgh, PA 15219

2/98: 1447

GUIDON®

Classification: Burned Fused Grain Magnesite - Chrome Brick

Physical Data: (Typical)	English Units	SI Units
	lb/ft^3	kg/m^3
Bulk Density	206	3,300
Apparent Porosity, %	13.9	13.9
	lb/in^2	N/mm^2
Crushing Strength		
At 70°F (21°C)	8,620	59
Modulus of Rupture		
At 70°F (21°C)	1,610	11
At 2700°F (1482°C)	450	3
Reheat Test		
Permanent Linear Change, %		
After Heating at 3140°F (1727°C)	+0.2	
Load Test, 25 psi (1.8 kg/cm^2)		
% Linear Subsidence		
After Heating at 3100°F (1705°C)	0.3	

Chemical Analysis: (Approximate)
(Calcined Basis)

Silica	(SiO_2)	1.6 %
Alumina	(Al_2O_3)	8.5
Titania	(TiO_2)	0.3
Iron Oxide	(Fe_2O_3)	11.0
Lime	(CaO)	0.8
Magnesia	(MgO)	58.3
Chromic Oxide	(Cr_2O_3)	19.5

The data are typical of the properties for the most commonly produced commercial sizes.
The data are subject to reasonable variations and should not be used for specification purposes.

ASTM Test Methods, where applicable, used for determination of data.

12/8/97 Dev.

Plibrico Company LLC
1010 N. Hooker Street
Chicago, IL 60642
Ph. 312 337-9000 Fax 312 337-9003
www.Plibrico.com

Technical Data Sheet

Plicast HyMOR 90 MA-7 V KK

Product Number 14236 Date 1/1/2013

Product Description
A high alumina, magnesium aluminate spinel enriched, low cement castable. Vibration cast only.

Service Limit - 3300°F *1,815. °C*
Density to place 183 pcf *2,931 kg/m3*
Density in service 183 pcf *2,932 kg/m3*
Mim Time berfore firing 16 hr

Std. package 55 # / 25 kg Bag
Water range per std. package:
Casting 1.1 to 1.3 qts *1.0 to 1.2 l*
Pumping to qts *0.0 to 0.0 l*

Chemistry % (calcined)

Al_2O_3	91.7	P_2O_5	
SiO_2	0.2	Alk.	0.3
Fe_2O_3	0.0	MgO	6.3
CaO	1.6	SiC	
TiO_2	0.0	ZrO_2	
		Other	

Thermal Conductivity

	btu*in/hr*ft^2 * F°	*w/m°C*
500F / 260C	20.0	*2.88*
1000F / 540C	19.0	*2.73*
1500F / 815C	19.0	*2.73*
2000F / 1090C	20.0	*2.88*

Abrasion Loss
per ASTM C 704
after 1500 F

cc

Coefficient of Thermal Expansion
(reversable)
5.4 x 10^-6 in/in F
9.7 x 10^-6 m/m C

Temperature per ASTM C113 / C865	Linear Change per ASTM C113 / C179	Cold MOR per ASTM C133 psi	MPa	CCS per ASTM C133 psi	MPa	Hot MOR per ASTM C583 psi	MPa
230 F / 110 C	0.0%	1800	*12.4*	8000	*55*		
1500 F / 815 C	-0.2%	1500	*10.3*	8000	*55*	1300	*9.0*
2000 F / 1090C	-0.2%	2000	*13.8*		*0*	1350	*9.3*
2500 F / 1370 C	0.2%	2500	*17.2*		*0*	2200	*15.2*
3000 F / 1650 C	-0.3%	2800	*19.3*		*0*		*0.0*

Other Data

Heat Up Guide
Schedule C or C-Linear

ASTM Class
C 401 Class G

Low Cement Castable

Note:
All data are averaged results of ASTM tests (where applicable) on laboratory vibration cast specimens. Reasonable variations in data can be expected. Data is not to be used for specification purposes. Product data is periodically updated to reflect product / raw material / process / testing changes. Please consult your Plibrico representative to make sure you have the most current data.

Morgan ThermalCeramics

Triangle 95C Magnesia

Datasheet Code EU: 95CMAG.R078 Fired Shapes

© 2009 Morgan Thermal Ceramics, a business within the Morgan Ceramics Division of The Morgan Crucible Company plc

DESCRIPTION:-
A high purity cast magnesia

PHYSICAL PROPERTIES		TARGET VALUES	LIMITING VALUES
Bulk Density	(kg/m^3)	2790	2690 min
Apparent Porosity	(%)	20.3	22.8 max
M.O.R.	(MN/m^2)	18.5	13.5 min

CHEMICAL ANALYSIS	TYPICAL VALUES	
SiO_2	3.4	5.0 max
Al_2O_3	0.1	0.3 max
Fe_2O_3	0.1	0.3 max
CaO	0.9	1.8 max
MgO	95.5	92.5 min
Na_2O/K_2O	0.1	0.3 max

SUPPLEMENTARY PROPERTIES		
Thermal Conductivity	($Wm^{-1}K^{-1}$)	3.25 (@ 650°C)
		2.60 (@ 1100°C)
Coeff. of Thermal Expansion	($x10^{-6}$°C)	12-15 (300-1500°C)

SHAPE CAPABILITY
Simple cast shapes
TOLERANCES
All pieces conform to relevant drawings.
APPLICATIONS
Induction melting crucibles for special alloy applications.

New search features Acronym Blog Free tools

Abbreviation to define MgO Find
abbreviation
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Examples: NFL, NASA, PSP, HIPAA, random Word(s) in meaning: chat "global warming" Postal codes: USA: 81657, Canada: T5A 0A7

What does MgO stand for?

MgO stands for Magnesium Oxide (chemistry)

Suggest new definition

This definition appears very rarely and is found in the following Acronym Finder categories:

- Science, medicine, engineering, etc.

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Monotype Guild of New England
Mahatma Gandhi National Institute of Research and Social Action (India)
Moto Guzzi National Owners Club (motorcycle)
Manipal Global Nursing Program (india)
Mgahinga Gorilla National Park (Uganda)

Mahatma Gandhi National Rural Employment Guarantee Act (India)

Mahatma Gandhi National Rural Employment Guarantee Scheme (India)

Monona Grove Nursery School (Madison, WI)

Management

Main Geophysical Observatory (Russia)

Mandatory General Offer

Marine Gas Oil (marine fuel)

Materials Global Operations (General Motors)

Metal Gear Online (gaming

Military Government Officer

Minimum Generator Operation

Music Goes On

MG Owners' Club (UK car club)

Morris Garages Octagon Car Club (classic car club)

Samples in periodicals archive:

com)-- Global magnesium oxide nanoparticle market (http://www.

Magnesium Oxide Nanoparticle Market Growth Trends and Forecast to ...

TEHRAN (FNA)- Iranian researchers from Kashan University produced a catalyst based on magnesium oxide nano-crystals that in addition to having high activity and stability has very high resistance against carbon formation.

Production of Catalyst for Steam Reforming of Methane

com) " Magnesium Oxide Nanopowder Market- Global Industry Analysis, Market Size, Share, Trends, Analysis, Growth and Forecast, 2012 - 2018," the global magnesium oxide nanopowder demand was worth USD 18.

Global Magnesium Oxide Nanopowder Market is Expected to Reach USD ...

manufactured refractory products from boron, beryllium, uranium, thorium, and magnesium oxide for the Atomic Energy Commission.

US to compensate Norton workers; Cancers may be from radioactive ...

Washington, July 22 (ANI): A team of scientists at the Berkeley Lab have produced non-toxic magnesium oxide nanocrystals that efficiently emit blue light and could also play a role in long-term storage of carbon dioxide (CO2), a potential means of tempering the effects of global warming.

New blue light nanocrystals could play role in long-term storage of ...

However, the magnesium oxide reacted with a cup of coffee that had also been thrown in the bin.

Uni student sparks fire

Twenty-three girls received 300 mg of supplemental magnesium oxide daily, while 27 girls received placebo.

Magnesium boosts bone growth in girls

Coatings manufactured for aluminum casting are not suitable due to a reaction between molten magnesium and moisture released from the binder in the coating, which forms magnesium oxide panicles.

Magnesium casting set for change

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