

NARCO CONFIDENTIAL-RESTRICTED



CM GUN MIX

Made at: Womelsdorf, PA

PRODUCT LIFE: MARCH 9, 1962 TO MAY 8, 1973

ASBESTOS DATES: JULY 3, 1967 TO PRODUCT LIFE *

* asbestos removed by discontinuing product

CM GUN MIX MIXES: 310
310A
310B
310C

NORTH AMERICAN REFRACTORIES COMPANY

Mix Instructions

NARCO CONFIDENTIAL-RESTRICTEDPlant Womelsdorf - BasicDate July 3, 1963Brand MC Sun mixMix No. 3608

Process _____

Burn _____

Magnesite Chrome Sun mix

Shrinkage _____

Mix

Chrome Ore	- 8 + 14 M	10 %
" "	- 14 + 48 M	10 %
" "	- 48 M	10 %
Periclase	- 8 + 14 M	30 %
"	- 14 + 48 M	20 %
"	- 48 M	20 %
Glazeon clay	A.F.	3 % (added)
"SD" Sodium Silicate		6 % (added)
asbestos 7K15		2 % (added)

Special Instructions

Reason for change: To add asbestos and
increase sodium silicate.

Control Specifications

Replaces Sheet Dated

April 16, 19637/3/63
ben

Signed

Engineering

Approved W. B. Schneider

Research

Approved R. J. Whitford

Operating

Approved [Signature]

Plant

NORTH AMERICAN REFRACTORIES COMPANY

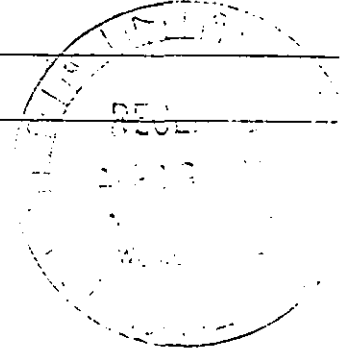
Mix Instructions

NARCO CONFIDENTIAL-RESTRICTEDPlant Womelsdorf - BasinDate April 16, 1962Brand MC Gun MixMix No. 360A

Process _____

Burn _____

Shrinkage _____



100	
90	
80	
70	
60	
50	
40	
30	
20	
10	
0	
STK	
ET	
ONE	

	Mix	
Chrome Ore	- 8+14M	10%
" "	- 14+48M	10%
" "	- 48M	10%
Pessilene	- 8+14M	30%
"	- 14+48M	20%
"	- 48M	20%
Gleason Clay A.F.		3% (added)
"GO" Sodium Silicate		4% (added)

Special Instructions Reason for change: Show proper size fractures.

Control Specifications

To be packaged in 100 lb. Bags.

Replaces Sheet Dated

3/29/62discontinuedApproved F. W. Schroeder ResearchApproved R. F. Whitford OperatingApproved John Plant

NORTH AMERICAN REFRACTORIES COMPANY

MIX INSTRUCTIONS

PLANT <u>Womelsdorf - Basic</u>	DATE <u>November 11, 1964</u>
BRAND <u>NARCOGUN CM-343</u>	MIX NO. <u>311</u>
PROCESS <u>Phosphate-bonded (SPS)</u>	BURN _____
<u>Chrome-Magnesite gun mix</u>	SHRINKAGE _____

EXPERIMENTAL MIX

Chrome ore	-3 1/2 +8 mesh	38%
Chrome ore	-8 +20 mesh	18%
Chrome ore	-20 +48 mesh	11%
Chrome ore	-48 mesh	2%
Periclase	ASF	30%
71K05 Asbestos		1%
		<u>100%</u>

SPECIAL INSTRUCTIONS Shred asbestos into mix by hand to
break up lumps. SPS solution will be added at the
gun nozzle on the job.

CONTROL SPECIFICATIONS

_____	_____
_____	_____
_____	_____

SIGNED Robert L. Nass
 Research