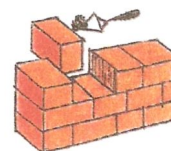




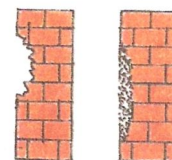
# Millennium

Mfg. Exclusive Fire Cement, Mortar & Castables

Office : "Janak", Mahavir Society, Off. Wadia Road, PORBANDAR - 360 575 Gujarat  
Works : Shed No. C-1/2, Plot No. 109, G.I.D.C. Estate, Dharampur, PORBANDAR - 360 577  
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Laying Fire Bricks



Patching Fire Bricks

## MNC - 90 (Self Flow)

CHEMICALLY BONDED CASTABLE REFRACTORY

### FREEDOM FROM

CURING MIXERS WAITING VIBRATIONS

#### PRODUCT - DATA

Recommended Service Temp. °C		1500		
Refractoriness °C		1680		
DRY DENSITY Kg/M <sup>3</sup>		2600		
Linear Charge % (+ / -) (Max) 1400 °C / 3 hrs.		1.0		
Chemical Analysis % Approx.		Al <sub>2</sub> O <sub>3</sub>	75 - 80 %	
		Fe <sub>2</sub> O <sub>3</sub>	3 %	
Maximum Grain Size (mm)		05		
C.C.S. Kg./Cm2	110 °C	1100 °C	1300 °C	1450 °C
	200	500	+800	+1000
Mixing Ratio : Kgs. Mix 50 Kg. Castable in 10 Kgs. Bindex Liquid				
Note : Above are average test data subject to reasonable variations.				

EASIEST  
INSTALATIONS

FASTEST  
INSTALATIONS

FASTEST  
HEAT-UP RATE

MOST  
EFFICIENT

UNIQUE

BETTER

CHEAPER

*Progress through innovation and service*

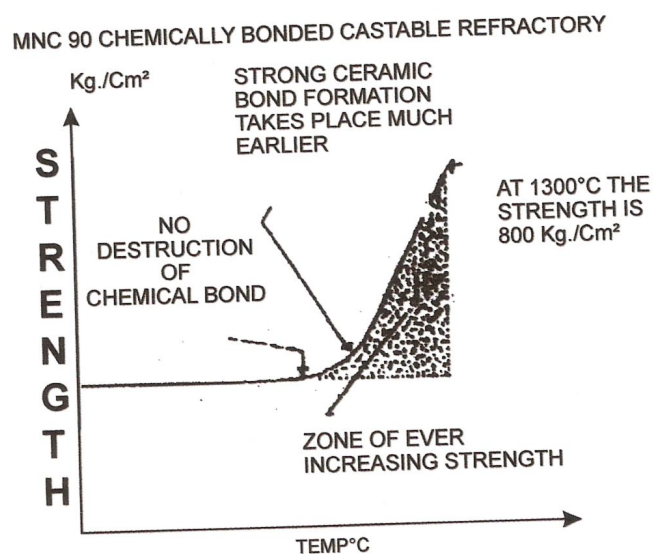
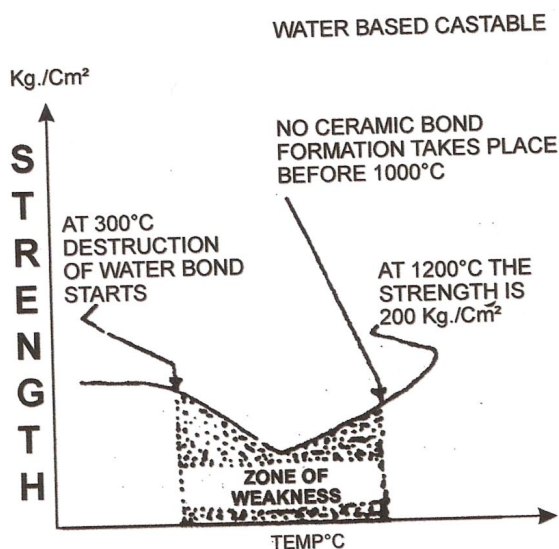
# MNC 90 (Self Flow)

## CHEMICALLY BONDED CASTABLE REFRACTORY WITH BONDEX LIQUID

MNC 90 Concrete is supplied in 25/50 Kgs. HDPE-Bag & Bondex Liquid in 05/10 Kgs. Can.  
Mix 25 / 50 Kgs. Concrete Bag into 05 / 10 Kgs. Bindex Liquid for standard consistency.

### TECHNICAL ADVANTAGES OF FTC - SUPER CHEMICALLY BONDED CASTABEL

Below, graph shows comparisons between **WATER** v/s **CHEMICALLY BONDED CASTABLES**. It is interesting to observe that as water based Castables mostly operates in the Zone of weakness resulting in poor life. Whereas MNC 90 operates in ever increasing strength zone, resulting in better life of castables.



- ❖ It is chemically bonded and as no water is added hence high strength is achieved everytime.
- ❖ It is water sensitive hence even a semi skilled mason can apply the castable in place correctly.
- ❖ No curing is required hence the Kiln can be lighted up anytime after six hours from the placement of the castable
- ❖ Initial strength achieved is quite high and very high strength is developed at higher temperatures with almost no shrinkage.
- ❖ Any General off - hand patch - work in cement plants where high as well as low temperatures might exit and at such places where conventional castables do not work.
- ❖ It is cheaper and better than conventional castables for similar application.
- ❖ Its strength is 3 to 4 times higher and it goes on increasing with increase in temperatures. Its life in actual practice is found to be many times more than the conventional castables. So the required down time of the Kiln is prevented thereincreasing overall efficiency.
- ❖ It is having good grip and sticks well with proper Anchoring System to metals also. Its workability is excellent so, it can be placed quickly and easily without any loss of strength even in difficult places any by using the Special Bindex Liquid can also be Spoon - Fed over proper anchors even in hit conditions.
- ❖ It is extremely abrasion resistant at lower and high temp. and is having excellent thermal shock resistant.

### "APPLICATION AREAS OF " MNC 90 Self Flow "

**CEMENT PLANT :** KILN HOOD, KILN INLET, CYCLONES, PREHEATER TOWER, KILN RISERS, HOT AIR DUCTINGS, TIP CASTING, COOLER SIDE-WALLS SPOUTS, BULL NOSE & ALMOST ANY KIND OF PATCHING.

**STEEL PLANT :** LADLE SAFETY LINING, LADLE TOP RING & SPROUT LIP AREA, COKE OVEN DOOR / INLET LIDS, RE-HEATING & ANNEALING FURNACES ETC.

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