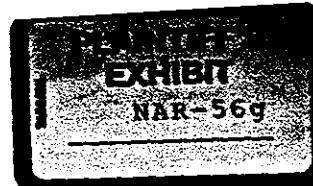




NORTH AMERICAN REFRACTORIES COMPANY

Technical Services Department



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NEW IMPROVED NARCOLITE

Notable improvements have recently been incorporated into NARCOLITE, enhancing its quality and desirability as a lightweight insulating castable. Of particular note resulting from the rearranged blend of constituents making up NARCOLITE is the improvement in its physical and chemical properties, its method of application and its ability now to meet the specifications for oil refinery requirements.

Improvement in NARCOLITE's physical and chemical properties consists of higher structural strength, especially in the intermediate temperature range; commendable volume stability under cyclic operating conditions; and, lower iron content.

NARCOLITE's method of application has now been extended to air placement, as well as pour and trowel, making it universal in use.

NARCOLITE's combination of lightweight, strength and very low thermal conductivity make it an ideal insulation behind hard surface abrasion resistant castables. These features are vitally important when considering refractory materials for oil refinery units utilizing two component linings. Laboratory test reports show that our NARCOLITE, in combination with NARCOCAST E.S. (Fine), meet the requirements in the rigid specifications set by Esso Engineering of New Jersey and Standard Oil of Indiana, and are now considered approved for composite linings.

NARCOLITE is primarily designed to serve as a back-up insulation, however, it also should be considered for single component walls in furnaces operated under favorable conditions.

Some of the suggested wide range of applications NARCOLITE will serve are:

Ducts, Breechings and	Clinker Coolers.	Preheaters
Stack Linings.	Incinerator Pits.	Furnace Walls
Boiler Walls, Tube	Oil Heaters.	and Roofs.
Decks and Baffles.	Hearths.	Industrial Ovens.
Combustion Chambers.	Door Liners.	Special Shapes.

Supplied in dry form, NARCOLITE is ready to mix with water in the field to provide the consistency desired for application. NARCOLITE is packaged in 50 lb. bags and supplied from our Curwensville, Penna. and Farber, Mo. plants.

--- In installations where refractory weight must be kept to a minimum, and/or

where the fuel and dollar saving benefits of an insulating refractory can be utilized to advantage, NARCOLITE offers the following:

1. **Low Heat Storage** - In furnaces that operate intermittently, it means savings in fuel consumption, shortens heating-up and cooling down cycle.
2. **Flexible Application** - Can be gunned, poured or troweled into place.
3. **Light in Weight** - Approximately 54 lbs. per cubic foot. Offers opportunity to cut cost of supporting steel work.
4. **Low Permeability** - Provides an effective monolithic sealing layer against air infiltration or gas migration, permitting more efficient furnace control.
5. **High Strength** - Good structural strength throughout temperature range up to maximum temperature limits.
6. **Permanence** - Absorbs the stresses of expansion and contraction while assisting in holding the wall or structure in positive alignment.
7. **Volume Stable** - Negligible shrinkage at all service temperatures.
8. **Resists Spalling and Thermal Shock** - Attributed to its physical structure.
9. **Excellent Coverage** - Greater coverage per unit weight than with dense castables.
10. **High Insulating Properties** - Reduces heat transfer as compared to dense refractories. See Illustration Below.

