Customer
Therm-O-Rock Corporation, of New Eagle and Donora, Pennsylvania, is a toll processor that custom blends and packages minerals to produce specialty products for steel, foundry and construction industries.
Its products include exothermic compounds, foundry sands, cements and grouts. This supplier provides a high level, quality control service to its customers which entails checking the quality of material received, material in process and product to be shipped.

Solution
Therm-O-Rock sent raw materials and its quality control manager to Vibra Screw's test center to witness tests on volumetric equipment and on a scaled-down version of the proposed handling and blending system. With raw materials processed just as they would be at the plant, Therm-O-Rock put the finished products through extensive testing at its own lab and even sent the test product to some of its customers for additional QC testing. The materials passed everyone's tests. Gravimetric just wouldn't be necessary.

Results
As a result of the success of Vibra Screw's tests, Therm-O-Rock not only purchased its new equipment from Vibra Screw, it asked the manufacturer to take charge of the entire project. Vibra Screw designed two identical packaging lines, with a 12' diameter, 3000 cf silos, assisted by a 5' diameter Bin Activators. The Bin Activators discharge to scalping screeners after which 15' long, 10' screw conveyors carry materials to continuous vibratory blenders. Three Bulk Bag Unloaders supply specialty ingredients to each blender via 50 cf hoppers and 6' VersiFeeder screw feeders.

The blending operation is continuous, so the equipment can't stop for hopper refilling or other interruptions. All processing equipment must be, and is, synchronized with a PLC custom designed by Vibra Screw.

From the date of the fire, Therm-O-Rock and Vibra Screw were able to design, build and start up the new plant in only thirteen months. Today, Therm-O-Rock performs at the quality level it demanded with high processing speeds, employing less maintenance than it might have under the earlier plan.