



NITRO

New Product Evaluation

Product	NITRO
Project	#EBO-1136
Start Date	1/12/90
Completion Date	11/2/90
Objective	To develop the most technically advanced high performance 2-piece ball that combines the Dynamic Core and a urethane cover stock containing two (2) unique additives. This distinctive formulation must allow bowlers to use the ball sanded or polished on a variety of lane conditions.
Core	Dynamic Core
Veneer	(1) 11.5 lbs. of urethane in the finished 14, 15, 16 lb. ball (2) Ebonite formulation with AJL51 additive which creates a greater surface area in contact with the lane for a greater angle of entry. The second additive HD106 has hydroxyl groups, double bonds, and ester linkages that provide reaction sites to form a unique hard hitting cover stock.
Performance Characteristics	Ball must hook very hard on the back end of long heavy oil conditions in its sanded state. Polished, the ball will go long through heads and snap hard at back end, while keeping the pins very low and creating superior carrying power.
Test Results	Four major ball tests and two drilling tests were conducted with a variety of PBA/LPBT players and amateurs. (Ref. report #OB216CL). In all tests, the Nitro formula was the unanimous choice of all players.
Quality Assurance Department Evaluation	Based on the test results referenced above as well as in-house testing and production, this product is ready for introduction. Authorization is hereby granted for unlimited production.

General Specifications

Hardness	76-77 Shore D
Target Weight	12, 14, 15, 16 # -1.0 oz., + 4.0 oz.
Top Weight	2.0 to 4.5 ozs. Average 2.5 to 3.5 ozs.
Appearance	Sanded dark blue finish with ability to polish if desired
Ball Roundness	+ or - .002" nominal
Core Roundness	Dynamically balanced to + or - .005"
Diameter	8.595" Average 8.585"