

# RANKING OF 2019 CLEATS

TOP-PERFORMING GROUP

Under Armour Nitro Wide

Under Armour Spine Wide

Under Armour Nitro

Under Armour Charged

Adidas Razorframe Wide

Adidas Fly Wide

Nike Vapor Wide

Adidas Sprintframe 2.0

Nike Vapor Jet

Nike Shark Wide

Adidas Razorframe

Nike Menace Wide

Nike Savage 2

UA Speedform

Nike Vapor

UA Highlight 2

Nike Menace

UA Spotlight 2

BETTER LABORATORY PERFORMANCE

## CLEAT PATTERNS NOT RECOMMENDED FOR USE ON SYNTHETIC SURFACES

Adidas Zeroframe Plate<sup>1</sup>



AS adizero 5-Star 4.0  
AS adizero 5-Star 4.0 Mid Pro  
AS adizero 5-Star 4.0 Pro

Adidas Quickframe Plate<sup>2</sup>



AS Crazyquick 2.0

Nike Shark Plate<sup>1</sup>



Zoom Code Elite Stove Shark  
Zoom Code Elite 3/4 Pro Shark

Nike Strike Plate<sup>1</sup>



Lunar Super Bad Pro TD  
Lunar Super Bad Elite TD  
Jordan Super.Fly 3 TD  
Jordan Retro 7 TD  
Lunarbeast Elite TD  
Zoom Code Elite 3/4 TD

<sup>1</sup> Removed from production in 2016

<sup>2</sup> Removed from production in 2017



# 2019 CLEAT PATTERN LABORATORY TESTING PERFORMANCE RESULTS ON SYNTHETIC TURF

THE NFL MUSCULOSKELETAL COMMITTEE HAS COORDINATED EXTENSIVE RESEARCH ON ATHLETIC SHOE SAFETY AND PERFORMANCE. THE COMMITTEE HAS DEVELOPED AND PERFORMED LABORATORY TESTS THAT EVALUATE WHICH CLEATS BEST PERMIT RELEASE FROM SYNTHETIC TURF DURING POTENTIALLY INJURIOUS LOADING. THE RESULTS OF THOSE TESTS ARE SET FORTH ON THIS POSTER.

A subset of 2019 cleat patterns from current manufacturers available to NFL players are ranked based on their performance in the laboratory testing. The performance of each cleat pattern is illustrated on the bar graph, with a longer bar representing better lab testing results. The rankings are based exclusively on the ability of the cleat pattern to allow release from a synthetic surface in laboratory testing. The laboratory test conditions were intended to represent potentially injurious lower extremity loading in the NFL. The results of this study should not be extrapolated to collegiate, high school, or youth football.

Shoes in the Top-Performing Group have no statistical difference in lab testing results from the top-ranked shoe.

At the bottom of the poster, 4 historical cleat patterns are identified and shoes that have used those cleat patterns are listed. These cleat patterns should not be used on synthetic surfaces.

Issues with shoe fit, shoe structure, and long-term durability are not addressed in these rankings. The information presented here is based solely upon the results of this research and the expert opinions of the scientists involved.