**Z-score** Hard to Open Easy to Open Nut Length -Nut Height **Nut Width** Nut Volume Nut VA3D Nut Feret Ratio Nut Surface Area **Nut Sphericity** Nut Convex Surface Area Nut Convex Volume 2 Nut Ratio Convex Area Nut Ratio Convex Volume Krumbein Index Sneed Index Air Volume -Kernel Volume Shell Volume - 1 Packing Volume Air Vol Ratio Kernel Vol Ratio Shell Vol Ratio Packing Vol Ratio Shell Rugosity **Shell Thickness** Protruding Shell Ratio 0 Protruding Shell Volume Kernel Length Kernel Height Kernel Width Kernel Surface Area Kernel Convex Volume Kernel Convex Area -1Kernel Ratio Convex Area Kernel Ratio Convex Volume Kernel Cavity Area Kernel Cavity Volume Kernel Arc Height Kernel Cavity Height Kernel Sphericity Kernel Ratio Cavity Area Kernel Ratio Cavity Volume Density Kernel vs Shell Density Packing vs Shell Density Packing vs Kernel Kernel Feret Ratio Nut Vol wo Air Kernel Vol Ratio wo Air Packing Vol Ratio wo Air

Shell Vol Ratio wo Air