

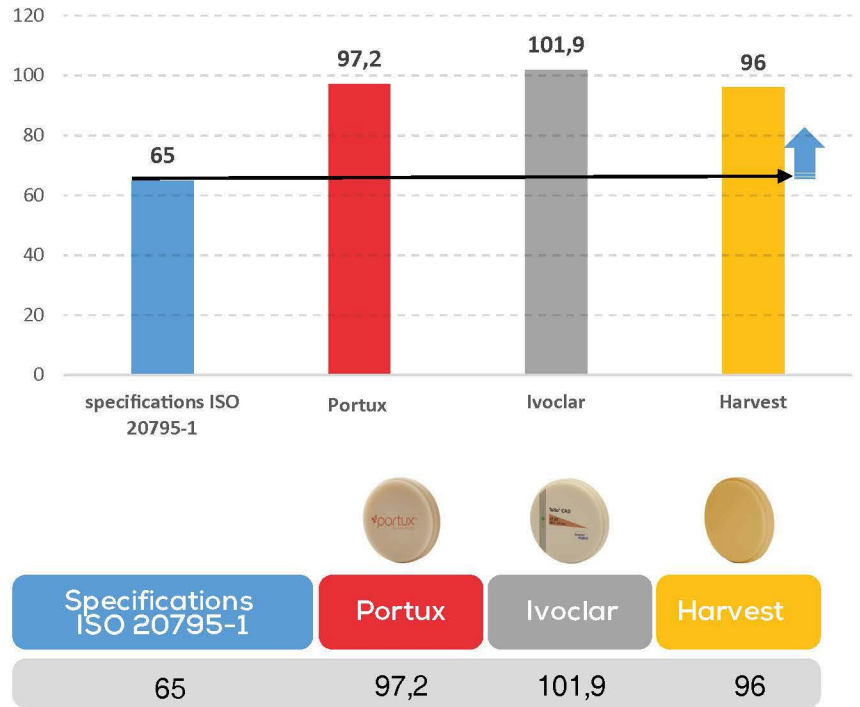
PMMA
COMPARATIVE
CHART



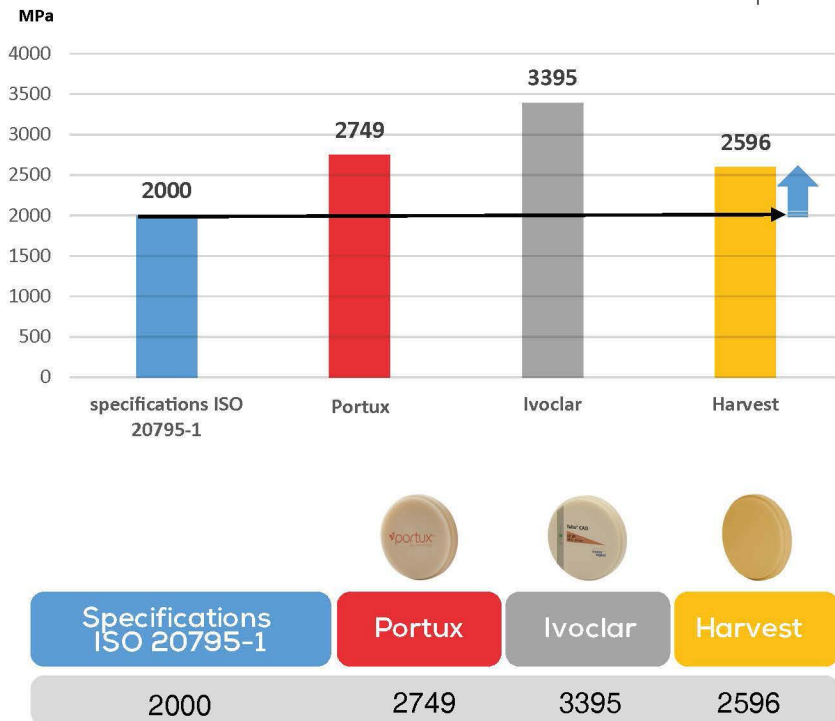
FLEXURE STRENGTH

The CAD/CAM discs from New Stetic (Portux) show a bending strength significantly higher than the minimum required by the ISO 20795-1:2013 standard, reaching a value of 97.2 MPa. This reflects their ability to withstand external forces without breaking, even in challenging clinical applications. Comparatively, the values are within a competitive range, but New Stetic (Portux) is the cost-effective solution without compromising mechanical performance.

Cad Cam discs flexure strength Mpa



Cad Cam discs Flexural modulus Mpa



FLEXURAL MODULUS MPA

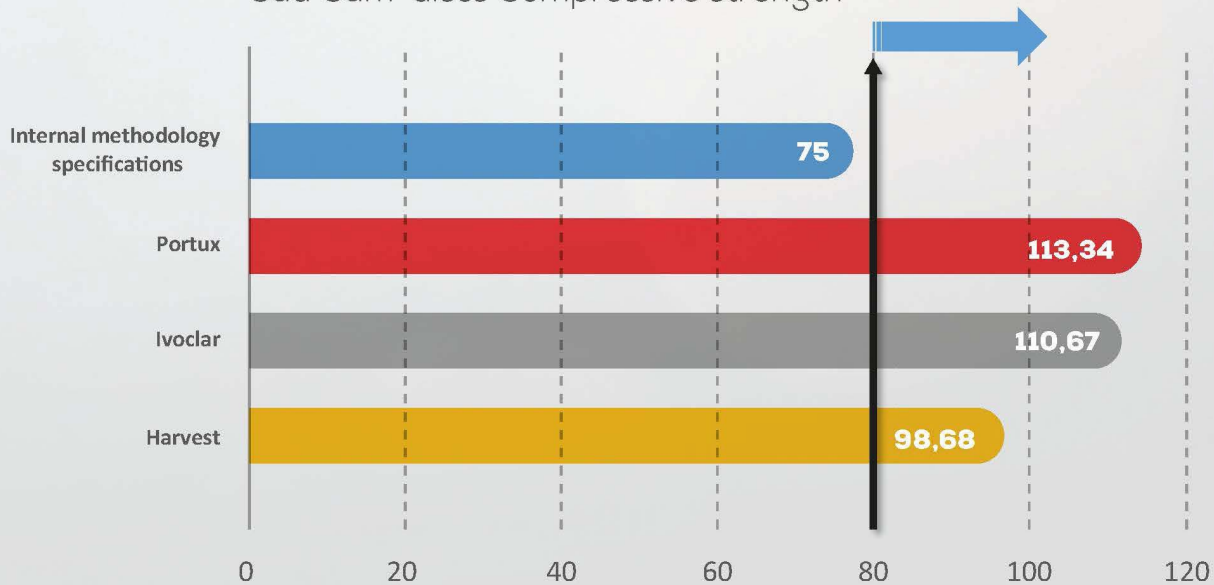
With a flexural modulus of 2,749 MPa, the discs from New Stetic (Portux) comfortably exceed the 2,000 MPa standard required by the ISO. This result demonstrates the material's excellent relative stiffness. New Stetic ensures structural stability for most prosthetic applications, combined with remarkable cost optimization.

COMPRESSIVE STRENGTH

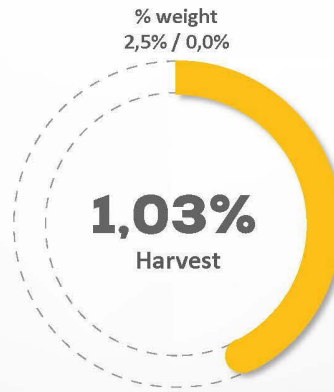
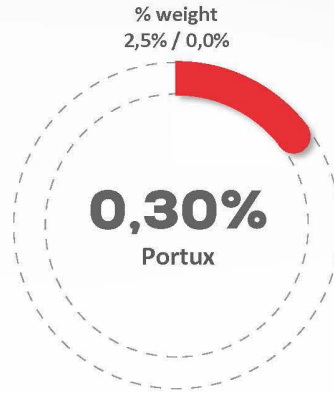
The discs from New Stetic (Portux) far exceed their own internal standard with 113.34, offering optimal strength in situations where compressive loads are predominant, such as in posterior restorations. This value places New Stetic (Portux) above others, standing out as a high-performance mechanical choice for restorations subjected to intense forces.



Cad Cam discs Compressive strength



Cad cam discs residual monomer % weight



RESIDUAL MONOMER

The residual monomer of 0.30% in the discs from New Stetic (Portux) is a result that is below the 2.2% limit required by the ISO 20795-1:2013 standard. This value reflects high-precision and controlled manufacturing, reducing the potential for allergic reactions or sensitivities in patients. This reinforces the competitive advantage of New Stetic (Portux) in terms of clinical safety and chemical stability.

Specifications ISO 20795-1	Portux	Ivoclar	Harvest
2,2%	0,30%	0,68%	1,03%



CAD CAM DISCS DENSITY

Density is a physical parameter obtained by dividing the mass of a body by its volume. Usually, each substance has its defined value. In the case of PMMA, it is documented as 1.18 g/cm³, which is the approximate value provided by the results of the evaluated discs.

