5 Reasons to use SPLENDOR - SAP

1. Universal
   Single size for narrow, medium and wide canals

2. Anatomical
   Adjustable to the shape of the canal

3. High retentivity
   Mechanical imbrication in addition to the chemical bonding

4. Conservative preparation
   Does not require major canal enlargements

5. Low risk of root fracture
   Elastic modulus close to dentin
A single post for any situation!

SPLENDOR - SAP
Single fiberglass post system

Definition
Angelus, a pioneer company and specialist in research, development and manufacture of fiberglass products for Dentistry, has launched a new generation of intraradicular posts.

The development of this new technology was the result of an in-depth study of current product deficiencies and the difficulties in their use by the dentist.

The first challenge was to reduce the quantity and models of drills and posts that the professional has to keep in their stock to meet different needs of teeth to be treated after endodontics and prior to the installation of the prosthesis.

The second one was the development of a post that had a better adaptation in the cervical region, an area that as a rule has a greater canal amplitude. The use of traditional models results in a lack of adaptation in this area, which may cause the post to move.

As a result, Angelus has developed a universal system called Splendor - SAP (Single Adjustable Post), consisting of one drill, one post and one sleeve. This solves the first challenge by decreasing the stock of various drill and post models. By adapting to narrow or medium-sized canals, filling the cervical area of the preparation with fibers, the second challenge was also solved.

Additionally, SPLENDOR - SAP allows the use in conservative preparations, which is a trend in current Prosthodontics, as well as provides greater mechanical imbrication, increasing the retention of the post in the canal in addition to the chemical bonding.

A single post for any situation!
Key Features and Benefits

**Universal**
- A single system to use in **every canal taper and diameter** narrow, medium or wide;
- No need to stock **multiple posts and drills**.

**Anatomical**

**Adjustable to root canal**
The system promotes great adaptation to the canal both in **diameter and in taper**.

**Adaptable to cervical region**
The sleeve promotes a greater amount of fibers in the cervical region, allowing a **smaller volume of cement** and, consequently, greater resistance and retention to the post.

**Sleeve in oval shape**
The sleeve shape accompanies the **oval anatomy of most root canals** and allows **better adaptation** to the canal walls.

**Low risk of root fracture**
The fiberglass composition of SPLENDOR - SAP provides an elastic modulus close to dentin, minimizing risks of root fracture.

**Preparos conservadores**
SPLENDOR - SAP can be used in canals with their **original anatomical form**, not requiring additional wear to adapt to the system.

• Except in cases of atresic canals when it presents a diameter smaller than 1.0 mm.

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**Technical Data**

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>POST AND SLEEVE</td>
<td></td>
</tr>
<tr>
<td>Fiberglass</td>
<td>80%</td>
</tr>
<tr>
<td>Epoxy Resin</td>
<td>20%</td>
</tr>
<tr>
<td>BUR</td>
<td>100%</td>
</tr>
</tbody>
</table>

**Composition**

- **Fiberglass**: 80%
- **Epoxy Resin**: 20%
- **Stainless Steel**: 100%

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**Measurements**

<table>
<thead>
<tr>
<th>Component</th>
<th>Length Total (mm)</th>
<th>Ø Apex (mm)</th>
<th>Ø Body (mm)</th>
<th>Ø Top (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post</td>
<td>18.0</td>
<td>0.65</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Sleeve</td>
<td>12.0</td>
<td>1.4</td>
<td>-</td>
<td>2.4</td>
</tr>
</tbody>
</table>

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**Radiopacity**: 5-7 mm Al

**Flexural Strength**: ≥ 800 MPa

**Elastic Modulus**: 50 GPa

**Sleeve taper**: 0.08 mm/mm
Angelus, always at the forefront of fiberglass posts, now presents the surprising SAP Splendor System.

As a great advantage, it combines the versatility of being able to be used in root canals of different thicknesses, making it simpler through the use of a single-diameter post attached to a sleeve that is easy to apply.

In most cases, it may replace the need to use anatomical posts with numerous advantages.

Prof. Dr. Rodrigo Albuquerque
• Associate Professor of Restorative Dentistry, Faculty of Dentistry, UFMG.
• Full Professor of Integrated Clinic and Coordinator of the Specialization Course in Operative Dentistry of the Faculty of Dentistry of the University of Itaúna - MG.
• Coordinator of the Extension Project “Restoration of Traumatized Teeth, Faculty of Dentistry, UFMG.
• Specialist in Restorative Dentistry by APCD Regional de Araraquara - SP.
• Master and Doctor in Restorative Dentistry by F.O. of Araraquara-UNESP.
• Member of the Brazilian Society of Esthetic Dentistry.

Technique of Use

- **Remove the canal filling.**
- **Prepare the canal with Splendor bur.**
- **Place the post in the canal.**
- **Insert the sleeve onto the post and position it as tightly as possible with light pressure.**
- **Cut the post and sleeve set at the defined height.**
- **Remove the set, wipe them separately with alcohol and air jets.**
- **Silanize them and allow to dry for 1 minute.**
- **Prepare the canal according to the instructions of the cement used.**
- **Initially position the post in the canal and then the sleeve over it.**
- **Build the coronal part of the core with composite resin.**

Clinical Case

Testimonial

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