


**ITB 221**  
*Male sterile*

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   |                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------|
| <b>Origin:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | France                            |  |
| <b>Breeder:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Institut du tabac Bergerac        |                                                                                     |
| <b>Contact:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | www.imperial-tobacco-bergerac.com |                                                                                     |
| <b>Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | aromatic burley                   |                                                                                     |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |                                                                                     |
| <p>ITB 221 is an early maturing variety with strong potential for a high quality, warm colored typically aromatic burley style, good yield, PVY<sup>N</sup> and black root-rot resistance.</p> <p>ITB 221 shows a low propensity to emit upper stalk suckers. It produces a short plant: 1.4 m tall after topping, easy to harvest and cure, with semi erect leaves. In south-west of France, topping would occur around 66 - 70 days after transplantation, and stalk harvest 15 days after topping. It typically produces 21 harvestable leaves.</p> <p>ITB 221 tends to have an even leaf maturity from bottom to top. It is adapted to stalk harvest, but leaf harvest also produces good results.</p> |                                   |                                                                                     |

**MAIN CHARACTERISTICS**

| <b>Resistances:</b>    |    |
|------------------------|----|
| <b>Black root rot:</b> | R  |
| <b>Powdery mildew:</b> | S  |
| <b>Blue mold:</b>      | S  |
| <b>PVY:</b>            | R  |
| <b>TMV:</b>            | S  |
| <b>Nematodes:</b>      | nd |
| <b>Other:</b>          | -  |

| <b>Production data ( 2010, estimated):</b> |                 |                            |
|--------------------------------------------|-----------------|----------------------------|
| <b>Country:</b>                            | <b>Acreage:</b> | <b>% of total acreage:</b> |
| FRANCE                                     | 555             | 23                         |
| MAROCCO                                    | 1040            | nd                         |
|                                            |                 |                            |
|                                            |                 |                            |
|                                            |                 |                            |
|                                            |                 |                            |

**R:** resistant – **S:** sensitive– **Tol:** tolerant  
**nd:** no data

| <b>Agronomical data and Chemical data</b> |                          |                              |                              |
|-------------------------------------------|--------------------------|------------------------------|------------------------------|
|                                           | <b>12 trials results</b> | <b>% of AERET standard *</b> | <b>% of local standard**</b> |
| <b>Yield (kg/ha):</b>                     | 3060                     | 95                           | 99                           |
| <b>Grade index:</b>                       | 80                       | 136                          | 100                          |
| <b>Maturity:</b>                          | early                    |                              |                              |
| <b>Nicotine content (%):</b>              | 3.9                      | 107                          | 95                           |
| <b>Reducing sugars (%):</b>               | -                        | -                            | -                            |

\* AERET standard variety: **TN90**

\*\* local standard variety: **ITB 501**

**REMARKS:**