

EXHIBIT 3 – The Chemical Range

The chemical range is applicable to both the autocontrol and audit measurements. The uncertainty of the measurements is included in the chemical range.

A manufactured fibre should be regarded as being equivalent to an *in-vivo* tested fibre, if the chemical composition falls within the following limit rules:

- **The maximum variation in the measured oxide compared to the tested fibre shall be:**

- For a concentration above 15%: the maximum permitted variation is +/- 10% with a maximum of 2.5% points
E.g.: For a concentration of 20% = Variation is between 18 and 22%
E.g.: For a concentration of 40% = Variation is between 37.5 - 42.5%
- For a concentration below or equal 15% and higher than 2%: the maximum permitted variation is +/- 1.5% points
E.g. Concentration of 10% => Variation is between 8.5 and 11.5%
- For a concentration below or equal 2%: the maximum permitted variation is +/- 1% points.
E.g. Concentration of 1.5%:= Variation is between 0.5-2.5%

- The rules apply to components or sum of components, i.e. CaO + MgO and Na₂O + K₂O are each treated as one component
- The chemical composition should account for at least 98% of the components and cannot not exceed 102%.
- For the following component or sum of components only the minimum-limit is relevant:

CaO + MgO
Na₂O + K₂O
B₂O₃
P₂O₅
Al₂O₃ (if Al₂O₃ ≥ 19%)

- For the following component only the maximum-limit is relevant:

TiO₂
Al₂O₃ (if Al₂O₃ < 2%)