The Supplementary Information for:

**Kaolin particle film mitigates supra-optimal temperature stress effects at leaf scale, and increases bean size and productivity of *Coffea canephora***

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**Table S1**.Red-yellow latosol chemical characterization before the coffee plantation and in the 2nd year of coffee cultivation.

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| Characterization | Before plantation | 2nd year |
| pH (in H2O) | 5.57 | 6.26 |
| pH (in CaCl2) | 5.00 | 5.58 |
| P (mg dm-3) | 10.88 | 36.55 |
| K (mg dm-3) | 114.60 | 184.31 |
| Ca (cmolc dm-3) | 1.93 | 3.54 |
| Mg (cmolc dm-3) | 0.71 | 0.88 |
| Al (cmolc dm-3) | 0.05 | 0.00 |
| H (cmolc dm-3) | 2.45 | 2.20 |
| H+Al (cmolc dm-3) | 2.50 | 2.20 |
| Sum of bases (cmolc dm-3) | 2.93 | 4.89 |
| Cation exchange capacity at pH 7 (cmolc dm-3) | 5.43 | 7,09 |
| Effective cation exchange capacity (cmolc dm-3) | 2.98 | 4.89 |
| Base saturation (%) | 53.96 | 68.97 |
| Saturated Al (%) | 1.68 | 0.00 |
| Organic matter (g dm-3) | 1.73 | 2.21 |
| S (mg dm-3) | 38.41 | 24.77 |
| B (mg dm-3) | 0.50 | 0.55 |
| Fe (mg dm-3) | 29.48 | 41.41 |
| Cu (mg dm-3) | 1.56 | 1.67 |
| Mn (mg dm-3) | 67.50 | 41.68 |
| Zn (mg dm-3) | 4.20 | 9.73 |
| Sand (%) | 59.93 | 53.29 |
| Silt (%) | 3.73 | 3.69 |
| Clay (%) | 36.34 | 43.02 |