

Standards for Spectacle Lenses

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NOTE: The tolerances for spectacle lenses are different for different parameters and different power ranges. This calculator in *eye tools* is used to check a lens that has been supplied. The result is a then report on whether the standards have been satisfied

After making these comparisons, *eye tools* can also be used to print a useful report that summarises the results.

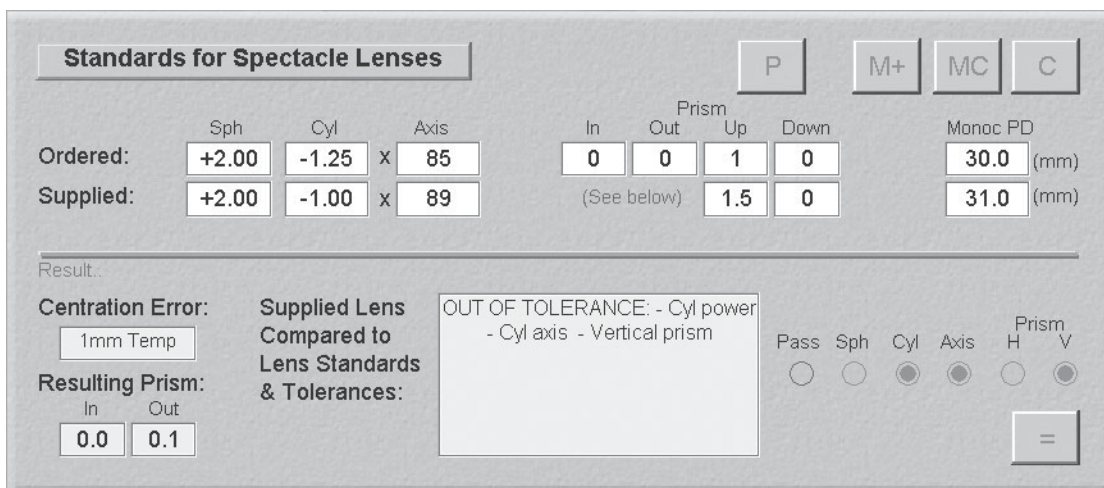


Figure: The calculator for Spectacle Lens Standards

1. Click on **C** to clear all data.
2. Enter the details of the lens that was *Ordered*.
3. Enter the details of the lens that was *Supplied*.

NOTE: It is not necessary to enter the horizontal *Prism* of the *Supplied* lens. This will be calculated by *eye tools* based upon the lens prescription and the *Centration Error* (if any).
4. Click on **=** to make the calculation.
5. The results are displayed as the *Centration Error*, the *Resulting Prism* and a summary of the *Supplied Lens Compared to Lens Standards & Tolerances*.
6. The highlight circles will turn RED for any parameters that do not meet the *Standards*, or the highlight circle for *Pass* will turn GREEN if the lens is within tolerance in all categories.
7. To print a copy of the results: Click on **P**

8. To copy the result to the clipboard (so that it can be pasted into a different program): Click on **M+** (The clipboard can be cleared with **MC**).

✓ **Tip:**

- This is a useful comparison of *Ordered* and *Supplied* lenses. The calculator allows for a simple comparison against the varying tolerances for different power ranges. The printed report is also a useful record of the reason for lens rejection.



EXAMPLE: The lens shown on the previous page was rejected for reasons of “Cyl power - Cyl axis - Vertical prism” because they were all outside tolerance in this power range.

The *PD* was not as ordered, but the *Resulting Prism* (0.1 Base Out) was within tolerance.

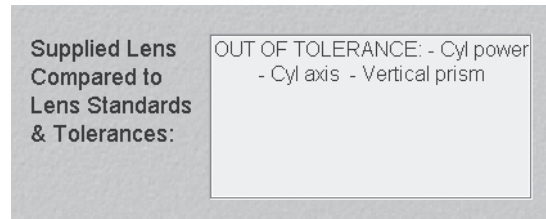


Figure: Part of the calculator for Spectacle Lens Standards