

CUBICAL EXPANSION OF SOLIDS.

9

| SUBSTANCE. | $a \times 10^6$ | $b \times 10^{11}$ | $c \times 10^{10}$ | Mean Co-efficient $\times 10^6$ | Temperature Range. ($^{\circ}\text{C}$) | OBSERVER. |
|--|-----------------|--------------------|--------------------|---------------------------------|---|-------------------------|
| Glass (green, tubo)..... | ..... | ..... | ..... | 2200 | 0—100 | Regnault. |
| Do. (do. globule).... | ..... | ..... | ..... | 2132 | 0—100 | " |
| Do. (Swedish, tube).... | ..... | ..... | ..... | 2363 | 0—100 | " |
| Do. (do. globule)... | ..... | ..... | ..... | 2441 | 0—100 | " |
| Do. (hard, French, tube) | ..... | ..... | ..... | 2142 | 0—100 | " |
| Do. (do. globule) | ..... | ..... | ..... | 2242 | 0—100 | " |
| Do. (ordinary), from ... | ..... | ..... | ..... | 2431 | 0—100 | " |
| to... | ..... | ..... | ..... | 2758 | 0—100 | " |
| Do. (ord. crystal, tube). | ..... | ..... | ..... | 2101 | 0—100 | " |
| Do. (do. globule) | ..... | ..... | ..... | 2330 | 0—100 | " |
| Do. (Cholsy-le-Roy crystal) from..... | ..... | ..... | ..... | 2144 | 0—100 | " |
| to.. | ..... | ..... | ..... | 2442 | 0—100 | " |
| Do. (St. Gobain). | 2141 | 2370 | ..... | 2378.4 | 0—100 | Fizeau |
| Do. (3 pts. of sand, 2 of Pb, and 1 of alkali) . | 2187 | ..... | ..... | ..... | 0—100 | Matthiessen |
| Do. (Thuringian soft, tube) ..... | ..... | ..... | ..... | 3585 | 0—100 | Weinhold |
| Do. (do. vessel)..... | ..... | ..... | ..... | 3590 | 0—100 | " |
| Do. (before heating)... | ..... | ..... | ..... | 2784 | 0—100 | Crafts |
| Do. (after having been heated for 100 hours in boiling sulphur)... | ..... | ..... | ..... | 2741 | 0—100 | " |
| Gold..... | 4075 | 3361 | ..... | 4411 | 0—100 | Matthiessen |
| Do. (cast)..... | 4220 | 1245 | ..... | 4353 | 0—100 | Fizeau |
| Do. (pure)..... | ..... | ..... | ..... | 4140 | 0—100 | Calvert, Johnson & Lowe |
| Do. .... | ..... | ..... | ..... | 4401 | 0—100 | L. Pfaff |
| Gutta-percha (purified)... | 49606 | 496000 | ..... | 69500 | 0—40 | Russner |
| Gypsum | 6700 | 6940 | ..... | 7304 | 0—100 | Fizeau |
| Do. .... | ..... | ..... | ..... | 7500 | 0—100 | F. Pfaff |
| Hornblende..... | 2355 | 3025 | ..... | 2658 | 0—100 | Fizeau |
| Ico..... | ..... | ..... | ..... | 11250 | -20—0 | Brunner |
| Do ..... | ..... | ..... | ..... | 15850 | -20—0 | Flicker & Goissler |
| Do ..... | ..... | ..... | ..... | 3500 | -12—0 | Marchand |
| Indium (cast)..... | 7424 | 63570 | ..... | 13782 | 0—100 | Fizeau |
| Iodine..... | ..... | ..... | ..... | { 23500 (?) 31231 | 40.3—107 | Billet |