

Table 1. COMPOSITION AND DIMENSIONS OF PHASES IN THE MOLYBDENUM-CARBON SYSTEM

| Com-<br>position  | Symbol    | Structure                                         | X-ray data        |                   |           | Molybdenum<br>atoms/unit<br>cell |
|-------------------|-----------|---------------------------------------------------|-------------------|-------------------|-----------|----------------------------------|
|                   |           |                                                   | $a_0(\text{\AA})$ | $c_0(\text{\AA})$ | $c_0/a_0$ |                                  |
| Mo <sub>4</sub> C | $\beta$   | hexagonal<br>closest<br>packing                   | 3.002             | 4.724             | 1.574     | 2                                |
| MoC               | $\gamma$  | hexagonal                                         | 2.898             | 2.809             | 0.969     | 1                                |
| MoC               | $\gamma'$ | hexagonal                                         | 2.932             | 10.97             | 3.742     | 4                                |
| MoC               | $\eta$    | complex<br>hexagonal<br>closest<br>packing        | 3.00              | 14.58             | 4.86      | 6                                |
| MoC               | $\alpha$  | face-centred<br>cubic (sod-<br>ium chlor-<br>ide) | 4.27              | —                 | —         | 4                                |

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