$$m_{N_2} = (28.0)$$
 $m_{O_2} = (28.0)$ 
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$$M_{02} = \frac{3(1.38 \times 10^{-23} \times 293)}{4.68 \times 10^{-26}} M/s = \frac{510 M/s}{4.68 \times 10^{-26}}$$

- (b) medium: 5 (trans. KE and rotational KE) high: 7. (trans. KE+ rotational KE+ vibrational)