

Calculated shear modulus G of stainless steel alloys as a function of the percentage of chromium (vertical axis) and of nickel (horizontal); red corresponds to high G ($> \sim$77 GPa), yellow to intermediate, and blue to low G ($< \sim$75 GPa). The authors apply a recently developed quantum-theoretical method to study the elastic properties of a series of Fe-Cr-Ni alloys and predict two new basic compositions. See article 155501.

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