

含碳量 $\leq 0.25\%$ 的渗碳钢:

$$J6\sim 40 = 74\sqrt{C} + 14Cr + 5.4Ni + 29Mo + 16Mn - 16.8\sqrt{E} + 1.386E + 7HRC$$

含碳量 0.25~0.60%的钢:

$$J6\sim 40 = 102\sqrt{C} + 22Cr + 7Ni + 33Mo + 21Mn - 15.47\sqrt{E} + 1.102E - 16HRC$$