

Steel Grade: ASTM 4419							
CHEMICAL COMPOSITION							
C(%)	Si(%) <sup>③</sup>	Mn(%)	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Ni(%)
0.18~0.23	0.15~0.35	0.45~0.65	0.04	0.04	0.70~0.90	0.20~0.30	—

Remark:

- ①, Remnant element: Cr ≤ 0.20%, Mo ≤ 0.06%, Ni ≤ 0.25%, Cu ≤ 0.35%
- ②, When the ω(Pb) is between 0.15% and 0.35%, the steel grade should be added "L" between the second number and the third number.
- ③, We can supply the steel of ω(Si) ≤ 0.15%, if you want to use it to cold forming parts, please choose ω(Si) ≤ 0.10%.
- ④, It is boron steel and the ω(B) is 0.0005%~0.003%, can not contain Ti, the max ω(B) is 0.005%.

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