



Quenched and tempered (Q&T) steel with high temperature oxidation resistance

APPLICATION

- **Engine Pistons:** for cars, trucks & ships EURO-VI diesel engines working at very high temperatures and pressures. SCM40 steel withstands high mechanical and thermal loads generating very little scale.



ADVANTAGES

High Oxidation Resistance

10-20 times less scale than current 42CrMo4 steel

High Tensile Strength

950-1200 MPa

Forgeable & Low cost

Suitable for hot forging

APPLIED TECHNOLOGY

- High Silicon alloying promotes a fayalite layer on the surface that prevents hot oxidation.
- Balanced alloying keeps a reasonable toughness and fine grain size.