

PREMIUM QUALITY LEAF SPRINGS

52CrMoV4 PQ | 51CrV4 PQ



High strength leaf springs with longer fatigue life

APPLICATION

- **Highly stressed leaf springs**, particularly **monoleaf and bileaf components**, manufactured with flat profiles A and C (parabolic and pneumatic).
- **Flat springs** for suspensions of light duty industrial vehicles, medium duty and heavy duty trucks and/or rail transport.



ADVANTAGES

Extended fatigue life

100% increase in fatigue life in respect to current grades

Higher strength

Slight rise of tensile strength and fatigue limit (10%) that allows an extra component weight reduction

APPLIED TECHNOLOGY

- **Inclusion engineering** and secondary metallurgy special practices to obtain harmless inclusions.
- **Controlled microalloys** addition to control austenitic grain size and to slow down the fatigue crack growth.
- Specific **hot rolling practices** to reduce decarburisation and to generate a fine and homogeneous microstructure.