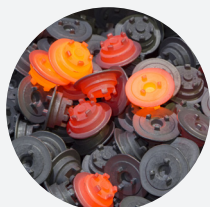


High yield strength and good compromise strength - toughness

## APPLICATION

- Steel for hot forged and controlled air cooled **high yield strength suspension arms**.
- **Hot forged components** with elevated mechanical requirements.



## ADVANTAGES

More compact and economic components	Excellent mechanical characteristics	Tailored properties	Good microstructure	Good machinability
Suspension arm size and weight reduction	High tensile strength (>1.100 MPa) and yield strength (>900 MPa). Very good toughness	Mechanical properties are adjusted controlling tempering temperature	Fine grain size (6-7 ASTM)	Controlled additions in order to improve behaviour in machining operations

## APPLIED TECHNOLOGY

- **Adapted hardenability** in order to obtain lower bainitic structure that exhibits high toughness at low cooling speeds.
- **Controlled cooling** after forging with the aim of obtaining finely distributed vanadium carbides that increase component tensile strength and, particularly, yield strength.
- Machinability improvement additions that compensate higher tensile strength of new steel: **MECAMAX® technologies**.