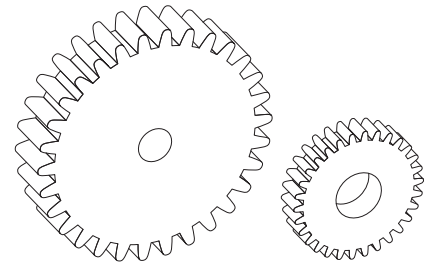


Application: gears, directly interlocked

Branches

- **Automobiles and agricultural machines**
- **Machine tools and general engineering**



Relevant product information

- Suitable cast iron grades:**
- ACO Eurobar GG-P, ACO Eurobar GGG-50, ACO Eurobar GGG-40/50
 - ACO Eurobar GGG-60 & GGG-70 – these grades are characterised by equivalent hardness and strength to steel grade C45E
- Can replace:**
- Sand castings
 - Steel
- Offers the following advantages...:**
- Superior machinability thanks to self-lubrication combined with ease of chip-breakage
 - Equivalent strength and superior resistance to wear
 - Improved surface finish after machining
 - Easy to deburr
 - Less rejection of parts
 - Favourable vibration-damping characteristics – less noise during operation
 - No shrinkage or porosity
 - Lighter than steel
 - More uniform and finer microstructure than with sand castings
- ...and cost savings:**
- No expenses for patterns
 - Fewer rejects
 - Increased tool life in machining thanks to the self-lubricating characteristics and absence of sand particles
 - Reduced machining allowances

Ordering information

Eurobar product	Microstructure	Hardness, HB	Tensile strength, N/mm ²
ACO Eurobar GG-P	Flake graphite, pearlitic	200-290	180-240
ACO Eurobar GGG-40/50	SG-iron, ferrite-pearlite	150-210	370-400
ACO Eurobar GGG-50	SG-iron, ferrite-pearlite	170-240	420-500
ACO Eurobar GGG-60	SG-iron, pearlitic	200-290	550-600
ACO Eurobar GGG-70	SG-iron, pearlitic	235-310	650-700

