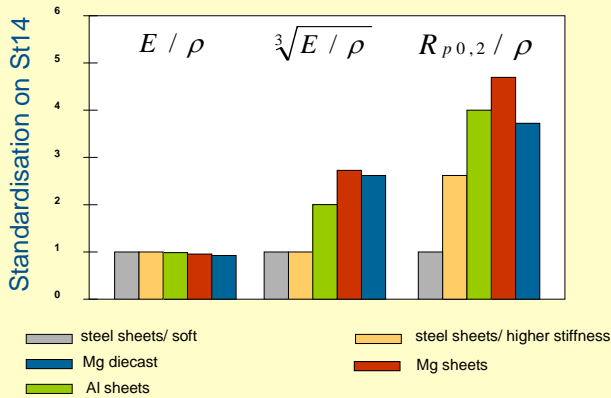


Magnesium thin strip casting

Properties of magnesium alloys

- super-light weight
- high specific strength and e-modulus
- limited formability
- low corrosion resistance

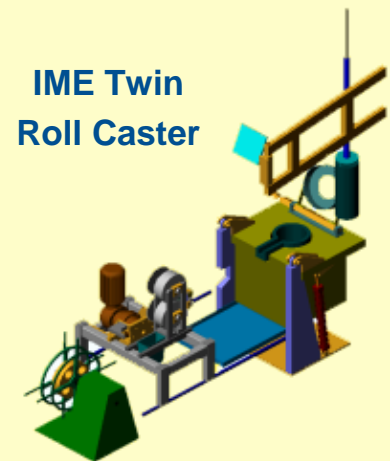
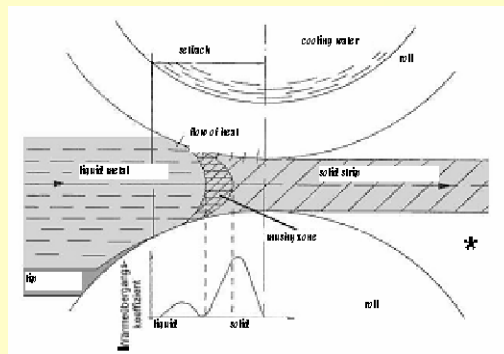


Today's Magnesium sheet production

- ingot casting and cutting
- annealing
- multi times hot rolling
- cold rolling and trimming

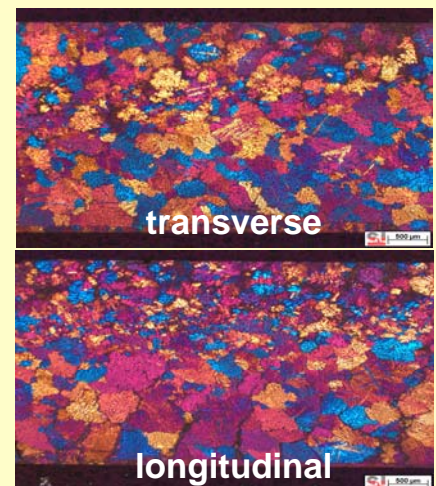
Advantages of thin strip casting

- high cooling rates - fine grain structure
- near net shape
- high productivity – reduced process steps



IME Twin Roll Caster

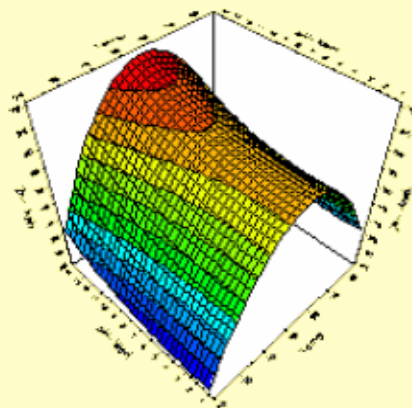
Microstructure AZ31



Metallographic preparation by Foundry Institute RWTH Aachen (GI)

Process monitoring and modelling

- casting velocity
- cooling rate
- rolling force
- temperature
- grain structure
- texture



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