Improving the properties of near net shape cast strip containing copper and tin from scrap

Project ID: 7210-PR/276
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Improving the properties of near net shape cast strip containing copper and tin from scrap

From 2001-07-01 to 2004-12-31

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
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<tbody>
<tr>
<td>EUR 989 000</td>
<td>C3 - Casting and solidification</td>
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<th>EU contribution:</th>
<th>Funding scheme:</th>
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<tr>
<td>EUR 593 400</td>
<td>CSC - Cost-sharing contracts</td>
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Coordinated in: Germany

Objective

The project aims to reduce or eliminate the deleterious effects of copper and tin arising from the use of recycled scrap by making use of the special features of near net shape casting together with direct in-line hot rolling. These tramp elements are known to influence the steel through processes controlled by diffusion and oxidation. By applying new knowledge and technical advances - high cooling rated and keeping a protective atmosphere - these problems can be overcome and, furthermore, the copper content can be utilised as an alloying element to raise the strength. Twin roll cast strip (1-5 mm thick) and DSC strip (8-15 mm thick) will be produced, their properties will be studied and compared with those from conventional production.

Coordinator

MAX-PLANCK-INSTITUT FÜR EISENFORSCHUNG
Max-Planck-Strasse 1
40237 DÜSSELDORF
Germany
See on map

Administrative contact: Achim BÜCHNER
Tel.: +49-211-6792328
Fax: +49-211-6792390

Participants
SALZGITTER
Eisenhüttenstrasse, 99
38223 SALZGITTER
Germany
See on map

Administrative contact: R.H. GRONEBAUM
Tel.: +49-534-1213715
Fax: +49-534-1214688

SWEDISH INTITUTE FOR METALS RESEARCH
Drottning Kristinas väg 48
114 28 STOCKHOLM
Sweden
See on map

Administrative contact: Tadeusz SIWECKI
Tel.: +46-8-4404845
Fax: +46-8-4404535
E-mail

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