



A REVOLUTIONARY DEVELOPMENT IN ROLL COATING

The new cooperation between Apex and Vits has fundamentally improved the quality of the chromium oxide coated rolls.

We managed to find an optimum combination of all coating parameter, particularly of the spray temperature with a special developed chromium oxide powder.

Refractory materials, i. e. chromium oxide and aluminium oxide ceramics, are used best possible by means of the special plasma spray procedure. The plasma flame is much hotter than in conventional procedures and the dwell time of the spray particles in the flame is much longer. It means that more time remains for thorough melt on of the spray particles.

The results are obvious:

- compact chromium oxide coating with a hardness of Hv 1500 - 1550
- smoother roll surface; surface roughness is reduced from Ra 0,5 µm to Ra 0,2 µm

**MUCH MORE HARDNESS
+ LESS SURFACE ROUGHNESS
= LONGER ROLL ENDURANCE**

The cooperation concept between Vits and Apex in the field of screen- and metering rolls makes it possible to offer this technology to an extremely attractive price.

Even the decision for a chrome roll modification is no longer a commercial question, it's rather a question of quality demands.

From now on this new technology will be offered for all metering- and screen-rolls. Please do not hesitate to contact us for further information or for an offer without obligation. Our After Sales Service staff members shall be at your disposal.

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Cr₂O₃ – porosity 5,9 %
hardness 1100 - 1200 Hv



Cr₂O₃ – porosity < 1 %
hardness 1500 - 1550 Hv



chrome plated steel or copper:
scoring



steel with ceramic coating (Cr₂O₃):
no scoring

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