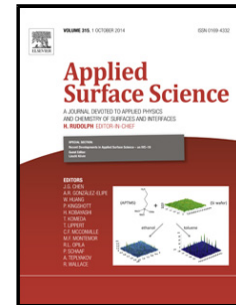


Accepted Manuscript

Title: Non-vacuum electron-beam carburizing and surface hardening of mild steel

Author: I.A. Bataev M.G. Golkovskii A.A. Losinskaya A.A. Bataev A.I. Popelyukh T. Hassel D.D. Golovin



PII: S0169-4332(14)02128-X
DOI: <http://dx.doi.org/doi:10.1016/j.apsusc.2014.09.137>
Reference: APSUSC 28793

To appear in: *APSUSC*

Received date: 25-4-2014
Revised date: 25-8-2014
Accepted date: 19-9-2014

Please cite this article as: I.A. Bataev, M.G. Golkovskii, A.A. Losinskaya, A.A. Bataev, A.I. Popelyukh, T. Hassel, D.D. Golovin, Non-vacuum electron-beam carburizing and surface hardening of mild steel, *Applied Surface Science* (2014), <http://dx.doi.org/10.1016/j.apsusc.2014.09.137>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

1. Steel specimens were carburized by non-vacuum electron-beam cladding.
2. The depth of the clad layers reached 2.6 mm.
3. The cladding rate was 1.8 m²/h, the quenching rate 12.6 m²/h.
4. The microhardness of the quenched and tempered layers reached 8 GPa.

Download English Version:

<https://daneshyari.com/en/article/5349406>

Download Persian Version:

<https://daneshyari.com/article/5349406>

[Daneshyari.com](https://daneshyari.com)