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No 10, 1963, pp 6-33
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CO₂-SHIELDED SPOT WELDING. [1962] 10p. 4 refs.
Order from OTS or SLA \$1.10 62-20021

I. Novozhilov, N. M.
II. Sokolova, A. M.

Trans. of Svarochnoe Proizvodstvo (USSR) 1956 [no. 7]
p. 10-13.

DESCRIPTORS: *Spot welding, *Carbon dioxide,
Fluxes (Fusion), Joints.

The spot welds made with this method have, compared to similar welds made with the submerged arc process, a more desirable shape as far as depth of fusion and weld reinforcement is concerned. With the CO₂-shielded spot welding process sheets of greater thickness can be spot welded than with the flux process. The strength of CO₂-shielded spot welds is no way inferior to that of flux-shielded spot welds. (Author)

(Metallurgy, TT, v. 9, no. 12)

Office of Technical Services

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POROSITY IN GAS-SHIELDED METAL ARC WELD-
ING. [1962] [11]p. 7 refs.
Order from OTS or SLA \$1.60 62-20045

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p. 9-13.

DESCRIPTORS: *Arc welding, Metals, Shielding,
Gases, Porosity.

The interaction of the gases with the metal is most
intense when the welding is carried out with consumable
electrodes at high current densities. The principal de-
fect in welding steel by this method is the presence of
porosity in the weld metal which is caused by the tem-
perature-dependent change in the solubility in the metal
of the active diatomic gases (H₂, N₂, and O₂) and by
their reactions in the weld puddle with constituents in
the metal (C, S) and with each other. Shielding at atmo-
(Metallurgy, TT, v. 9, no. 9) (over)

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Order from OTS or SLA \$1.10 62-20048

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Atmosphere, Oxygen.

A method for the automatic under-water welding in a
strongly oxidizing protective atmosphere consisting of
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has been described. In under-water welding, the in-
creased oxidizing power of the protective atmosphere
(more than 10 to 15 per cent oxygen) is a useful and
necessary property for suppressing the harmful effect
of hydrogen and for obtaining sound weld metal.
(Metallurgy, TT, v. 9, no. 9) (over)

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Electrodes, by S. M. Novozhilov, A. M. Sokolova,
11 pp.

RUSSIAN, per, Svaroch Proiz, No 5, 1959, pp 7-11.

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THE DEVELOPMENT OF ELECTRODE WIRES FOR
WELDING LOW CARBON AND LOW ALLOY STEELS
IN CARBON DIOXIDE GAS (Razrabotka Elektroodnykh
Provoloek dlya Svariki Malouglerodistykh Staley i
Nizkolegirovannykh v Uglekislom Gaze). Jan 61 [14]p.
13 refs. RTS 1604.
Order from LC or SLA ml\$2.40, ph\$3.30 61-15405

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Tests made on three electrode wires containing the
strong deoxidants aluminum and titanium, did not show
them to have any advantages over silicon manganese
wires. Rational limits of deoxidizing element contents
in electrode wires intended for welding rimming and
killed low carbon steels at currents up to 500 amp
are 0.05 to 0.12% C, 0.06 to 1.0% Si, and 1.4 to
2.4% Mn.

(Machinery--Manufacturing, TT, v. 5, no. 7)

1. Electrodes--Materials
2. Steel--Welding
- I. Novozhilov, N. M.
- II. Sokolova, A. M.
- III. RTS-1604
- IV. Department of Scientific
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ON THE ERROR OF THE KIRCHHOFF HYPOTHESIS
IN SHELL THEORY (O Pogreshnosti Gipotez Kirkhgofa
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DESCRIPTORS: *Elastic shells, Theory, Errors,
Elasticity, Deformation, Stresses, Transformations
(Mathematics), Differential equations, Mechanics.

For the purpose of elucidating the inaccuracies men-
tioned in the title of this paper the authors develop a
theory of shells independent of the Kirchhoff and Love
hypothesis. This theory generalizes and extends the
earlier treatments published by Basset and partly by
Kiltchevsky. The results obtained lead to the conclu-
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