

**Ores and Minerals Handling and Beneficiation**

- BISI 8725 (O. Burghardt and H. Kortmann)  
Investigation of the properties of sinter dependent on the grain size of a magnetite and a hematite iron ore.  
[Stahl Eisen., 1970, 90, July 23, 805-811] (G)
- BISI 9703 (J. Luckers, et al.)  
Continuous automatic control of sinter quality in a dl-sintering plant.  
[International Conference on Iron and Steel: Automation in Iron and Steelmaking. Luxembourg, 13-15 April; Dusseldorf, 16-18 April, 1970, pp. 53-62 and Intervention, p. 73] (F)
- BISI 10302 (A. Voicu, et al.)  
Rotary tipplers for use in iron-making plants.  
[Metalurgia, 1971, (11), 718-720] (Rom.)
- BISI 10414 (E. di Poggio, et al.)  
Trials leading to increased productivity at a sinter plant by modifying the charge mix.  
[Boll. Tech. FINSIDER, 1971, Aug. Sep., 549-552] (I)

**Ironmaking and Ferro-Alloys**

- BISI 9991 (N. A. Voronova, et al.)  
Raising the quality of foundry pig iron.  
[Stal', 1971, (10), 885-887] (R)
- BISI 10231 (M. Prouza)  
The effect of coke reactivity on its consumption in blast furnace operation.  
[Hutn. Listy, 1972, (1), 5-10] (C)
- BISI 10285 (J. van Laar)  
Historical review of the development and design of high-temperature hot blast stoves with combustion chamber inside the stove.  
[Stahl Eisen., 1972, 92, (4), 154-157] (G)
- BISI 10681 (M. L. Zyskind)  
Calculating the degree of direct reduction of iron. [Stal'. 1972, (6), 488-490] (R)
- BISI 10703 (B. N. Zherebin)  
Influence of graphite content on physical properties of magnesia-alumina blast-furnace slags.  
[Izv. VUZ Chern. Met., 1972, (6), 22-25] (R)

**Steelmaking**

- BISI 9824 (Z. Jasinsky, et al.)  
Roof jets employed for blowing powdered substances into the bath of steelmaking furnaces.  
[Hutn. Listy, 1971, (7), 473-481] (C)
- BISI 10339 (N. A. Kislova & V. A. Boyarshinov)  
The production costs of metal obtained in electroslog and vacuum arc furnaces.  
[Sb. Tr. Tsent Nauch-issled. Inst. Chern. Met.,

- 1970, (75), 189-193] (R)
- BISI 10662 (Anon)  
The problem of hoods.  
[CDS Cire., 1971, 28, (10), 2233-2234] (F)
- BISI 10663 (French Patent)  
Improvements to metallurgical processes in which oxygen is injected to the bath.  
[French Patent 24.353/1450718, 1966, July] (F)
- BISI 10682 (K. K. Zhdanovich, et al.)  
Improving the quality of open hearth ShKh 15 ball bearing steel.  
[Stal', 1972, (6), 505-508] (R)
- BISI 10684 (V. N. Binevskii, et al.)  
Introduction of argon into the zone formed by the electric arcs of a 5 ton electric furnace.  
[Stal', 1972, (6), 515-516] (R)
- BISI 10689 (V. O. Kulikov, et al.)  
Heating 900 t open-hearth furnaces by natural gas with self-carburization in the spray-cone.  
[Stal', 1972, (6), 557-559] (R)

**Extraction and Refining**

- BISI 9492 (F. Sperner)  
Vacuum-melting of iron-, nickel-, and cobalt-base alloy. [Nickel Symp. Gesellschaft Deutscher Metallhütten-und Bergleute eV, 1970, Sept. 24-25, 191-200] (G)
- BISI 10694 (M. Ya. Medzhibozhskii)  
An analysis of the kinetics of carbon oxidation in metal shot and an estimate of the dwell time of the shot in the slag.  
[Izv. VUZ Chern. Met., 1972, (6), 51-56] (R)

**Engineering**

- BISI 9952 (R. Geiger)  
Investigation of lubricants for the hot forming of steel. [Industrie-Anziger, 1970, 93, (30), 623-29] (G)
- BISI 10165 (R. Kracke & W. Becker)  
The coupled-motion weighing of railway wagons  
[Stahl Eisen., 1971, 91, (23), 1323-27] (G)
- BISI 10369 (German Patent)  
Process for cleaning coke gases for the formation of a carbon monoxide and hydrogen enriched fuel Gas. [German Patent 1,186,974, 1965, 11 th Feb.] (G)
- BISI 10690 (B'Z. Teverovskii, et al.)  
Trial cloth filter for cleaning open-hearth gases before the waste heat boiler.  
[Stal', 1972, (6), 566-568] (R)

[抄録 538 ページよりつづく]  
なり, 双晶亜結晶は減少する). の 2 段階に分けられる. 時効後に焼き入れた場合は時効しない場合より硬度が高い理由はマルテンサイト変態量の相違によるものであ

り,  $\lambda$  の増大とともに硬度が減少するのは粒子間隔の増大とマルテンサイト間の界面の拡散と関係をもち内部双晶の減少と関係があると考えられる. (盛山博一)