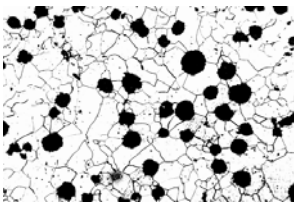




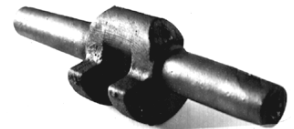
Technology of obtaining ductile iron by modifying in the mould



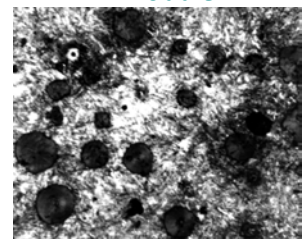
ВЧ 600-10



Work up technology to produce machine-building castings (bodies, crankshafts, diaphragms and other) of ductile iron, obtained in mould modifying process.



ВЧ 800-3

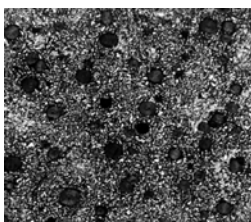


The advantages of offered technology:

- elimination of smoke and reaction fumes as undesirable atmospheric conditions;
- the efficiency of magnesium-containing alloy (7%Mg) is from 80% to 90% or above compared with 30% for ladle process, the inoculating alloy usage is from 0,6% to 0,7% of mass of metals entered the mould;
- a gating systems design that allows separation of insoluble reaction products before they can enter the mold cavities of castings;
- in structure thin-section casting free carbides (cementite) are absent;
- give a chance for obtaining castings of thickness section up 10-15mm without application feeder heads.



ВЧ 900-5



Special grades of ductile iron

Grade	Structure of metal base	Mechanical properties			Types of castings
		σ_b , МПа	δ , %	HB	
ВЧ 600-10	<i>ferrite</i>	>600	>10	179-229	<i>Bodies</i>
ВЧ 800-3	<i>pearlite</i>	>800	>3	241-302	<i>Crankshafts</i>
ВЧ 900-5	<i>bainite</i>	>900	>5	269-311	<i>Diaphragms</i>

