



Modifier alloys for ductile iron production

Original technology of smelting and preparation of modifier alloys base of Mg, Si, Fe



Melting section



Pouring process

was developed and realized. These modifier alloys to produce ductile iron with spherical and nodular graphite

Advantages of offered technology

- higt (93-95%) yield of modifier (on the weight of charge material);
- stable elements content: with next dewiation from required content, %:
 $Mg \pm 0.2 \dots 0.5$; $Ca \pm 0,1 \dots 0,3$;
 $REM \pm 0,1 \dots 0,2$; $Si \pm 3 \dots 5$;
- elemination of pyro-effect during melting process.

Composition of modifier alloys according with standart of Ukraine

<i>Mark ^{*)}</i>	KMr1	KMr2	KMr3	KMr4	KMr5	KMr6	KMr7	KMr9	Ca	REM	Si	Cu	Ni	Ti
<i>Mg optimal contents, %</i>	1	2	3	4	5	6	7	9	0,2 ...4	0...4	40...7 0	0...35	0...2 0	0...1 2
<i>Deviation from optimal, ± %</i>	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	±0.1 ...0.3	±0.1 ...0.2	±3 ...5	±3	±2	±1

^{*)} In all marks, %.