

BILLET CASTING

Consumables - FLOATS



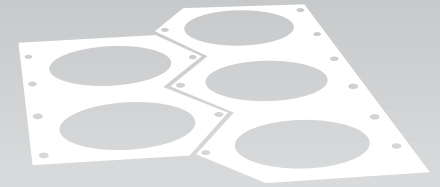
Description:

RODABELL'S floats have been specifically developed to provide the best molten Aluminum distribution in the casting process.

RODABELL'S billet casting floats are manufactured by using a certified machining process. Our machining process has been developed jointly with our customers and raw material providers in order to achieve the best quality in the final product.

We use a broad range of materials to produce our floats. The material may vary according to each customer's casting parameters.

RODABELL'S engineering department is able to develop any kind of detailed drawings and machining implementation (G code) for any spout that we do not have in our product range.



Application:

Casting float for traditional Direct Chill billet casting Aluminum manufacturing.

Advantages:

- Great mechanical resistance that provides an extended lifetime.
- High thermal shock resistance
- No preheating necessary
- Reduces risks of casting failure due to a sudden metal cooling
- Easy to clean between castings

Mechanical properties

	Units	FT-MO	FT-N14	FT-N17	FT-CA15	FT-CA35
Bulk density	kg/m ³	850	848	817	1040	1050
Flexural strength	MPa	8	8.8	8	10	13
Compression strength	MPa	15	17	16	20	28
Hardness	Mpa	60	60	60	66	70

Thermal properties

	Units	FT-MO	FT-N14	FT-N17	FT-CA15	FT-CA35
Service temperature	°C	850	850	850	1000	1000
Thermal conductivity	W/mK	0,26 (750°)	0,201 (700°)	0,201 (700°)	0,29 (600°)	0,29 (600°)
Loss on ignition	%	3,1	8	8	2-2,5	2-2,5
Shrinkage	%	0,1/0,4	0,25/1,10	0,2/1,36	0,12/0,7	0,3/1,5
Coef. Termal expansion	K ⁻¹	6,1*10 ⁻⁶ /K	7*10 ⁻⁶ /°C	7*10 ⁻⁶ /°C	5,0*10 ⁻⁵ /K	5,9*10 ⁻⁵ /K