



# Breeman International Supplies

"Today millions of cubic meters are moved by products which are developed, produced and maintained by Breeman International Supplies".

Knowing that a dredger is subject to work under several environments during the lifetime of the parts, priority is given to the mechanical safety. Taking into account all factors, the best material will be the most wear resistant in order to ensure no breakage during operations.

### Manufacturing Quality

From a specific chemical analysis, the best properties will be obtained through sophisticated heat-treatments, which are part of the know-how and experience of the supplier. This will ensure the right metallurgical structure but also the correct hardness of the casting.

It is also very important that we can guarantee a perfect homogeneity of these properties into all the cross section of the casting to make sure that the characteristics we can measure on the surface of the part will be similar to the inside. In this way a good wear pattern is ensured and consequently pump efficiency maintained. On top the life time of the parts is significantly increased.

Material Information Table

Items for	Inner Casing, Liners	Outer Casing, Impellers
Material grade	BD450	BD280
Chemical Composition		
C	2.0-3.0	0.15-0.3
Si	Max. 1.0	Max. 0.8
Mn	Max. 0.8	Max. 0.8
Cr	23-30	1.0-3.0
Ni	0.8-1.2	1.5-3.5
Mo	0.3-0.5	0.5-2.0
Hardness (HRC)	60	42
Weld ability	N/A	Fair & Easy

Based on over 45 years of experience, the above shown materials are selected from a wide scope of possibilities and are in most cases the best solution. However a lot of other alloys can be supplied, either on your request or on our recommendation for specific applications

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