SOAR



PRODUCT MANUAL 2024

www.soaralloy.com

COMPANY PROFILE

SOAR



Soar Alloy Materials Thailand Co.,Ltd. is a professional manufacturer and exporter of high-quality foundry alloy for global foundries since 2015. Our main products: Nodulizer, Various FeSi based Inoculants (Al、Bi、Ba、Ce、La、Sr、Zr Inoculant), Mold Inoculant, Mold Powder for casting iron pipe, Cored Wire and NiMg etc.

Soar Alloy was founded in 2015 with a total investment of US$20 million. The factory was located in PLUAKDAENG DISTRICT, RAYONG PROVINCE THAILAND, which is about 35kms to Laem Chabang port, 35kms to the downtown to Pattaya, 120kms to BKK international airport. The factory is close to the port and has convenient transportation. It can be shipped to anywhere in the world by sea.

Soar Alloy has 3 sets of medium frequency furnaces (one is 6 mt, the other is 3 mt, the last one is 1mt), several lines of automatic crushing and sieving system and package system. Our total capacity is 35,000Mt (both for Nodulizer and Inoculant) per year. In 2023, our total output was more than 18,000Mt.

In our lab, we have one set of analysis centers with atomic spectrum (ICP), one set of X-Ray and full sets of chemical content and size distribution analysis equipment. Since the end of 2016, we have passed ISO 9001: 2015 international authentication.

We are committed to providing high quality, competitively priced products to the foundry industry. We look forward to becoming your reliable, long-term partner.







Mold Powder for Ductile Iron Pipe

COMMODITY	Chemical Composition%							
	Si	Ca	Ba	AL	Mn	Zr	Bi	RE
MP-Ba	60-68	2-4	2-3	1.5max	-	-	-	-
MP-Zr	62-68	0.5-2	0.5-2%	0.5-1.3	1-5	1-5	-	-
MP-Ca	50-60	9-15	0.3-1	1.5max	0.5-2	0.5-2	-	-
MP-Bi	68-75	1.2-2	0.1-0.6	1.5max	-	-	0.4-1.3	0.4-1.3

Standard Size: 0-0.3 mm
Standard Packing: 25kg bags on pallet or 25kg bags into 1000kg big bag
All the composition of each element, other special element does not mention above and packing can be customized.

Cored Wire Powder

COMMODITY	Chemical Composition%								
	Si	Mg	RE	Ca	AL	Ba	Mn	Zr	Bi
WP-Mg26	43-48	24-26	0.8-1.2	2.5-3.5	1.0max	-	-	-	-
WP-Mg26RE0	43-48	24-26	-	2.5-3.5	1.0max	-	-	-	-
WP-BA	60-68	-	-	1.2-2.0	0.8-1.5	7-12	-	-	-
WP-BI	68-75	-	0.4-1.3	1.2-2.0	1.5max	0.1-0.6	-	-	0.4-1.3
WP-ZR	62-69	-	-	0.5-2	1.5max	0.3-0.7	1.8-2.9	2.0-3.0	-

Standard Size: 0-2 mm
Standard Packing: in1000kg big bag on pallet.
All the composition of each element, other special element does not mention above, size and packing can be customized.







Mold Inoculant

COMMODITY	Chemical Composition%			
	Si	Ca	AL	Mn
MI-D Insert	70min	0.5-1.5	3.2-4.5	-
MI-G Insert	70min	0.5-1.5	0.5-1.5	3.2-4.5

specification:

TYPES	WEIGHT(g)	TYPES	WEIGHT(g)
20g	16-24	800g	720-880
40g	36-45	1000g	900-1100
60g	54-66	2000g	1800-2200
80g	72-88	3000g	2800-3200
100g	90-110	5000g	4800-5200
150g	135-165	10000g	9800-10200
300g	270-330	20000g	19500-20500

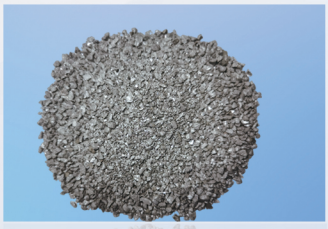
Standard Packing: in 100kg steel drum or in 1000kg big bag on pallet.

NiMg&CuMg

COMMODITY	Chemical Composition%					
	Ni	Cu	Mg	Si	RE	Al
NM-Ni80	80min	-	15min	-	-	-
NM-Ni82	82min	-	15min	-	-	-
CM-Cu80	-	80min	15-20	-	-	-

Standard Size: 5-25mm, 10-30mm, 50-100mm, other sizes available on request
Standard Packing: in 100kg steel drums on pallet.





NODULIZERS

COMMODITY	Chemical Composition%						
	Si	Mg	RE	Ca	La	Ba	Al
Nod-Mg4	44-48	4.3-4.8	0.6-0.8	0.8-1.2	-	-	1.0max
Nod-Mg5	44-48	5.3-5.5	0.8-1.2	1.5-2.0	-	-	1.0max
Nod-Mg5L	44-48	5.3-5.8	0.8-1.2	1.5-2.0	-	-	0.5max
Nod-Mg6	44-48	6.2-6.8	0.8-1.2	1.8-2.2	-	-	1.0max
Nod-Mg6RE0	44-48	6.2-6.8	0	1.8-2.2	-	-	1.0max
Nod-Mg7	44-48	7.2-7.8	0.8-1.2	1.8-2.2	-	-	1.0max
Nod-Mg8	44-48	8.2-8.8	0.8-1.2	1.8-2.2	-	-	1.0max
Nod-Mg9	44-48	8.8-9.3	0.8-1.2	2.5-3.5	-	-	1.0max
Nod-Mg10	44-48	10-11	0.8-1.2	2.5-3.5	-	-	1.0max
Nod-Mg10Ba	44-48	10-11	0.8-1.2	3.0-3.5	-	1-1.5	1.0max
Nod-Mg26	43-48	26-27	0.7-1.1	2.5-3.5	-	-	1.0max
Nod-Mg26RE0	43-48	26-27	0	2.5-3.5	-	-	1.0max
Nod-Mg5La	44-48	5.3-5.8	-	0.8-1.2	0.4 -0.6	-	1.0max
Nod-Mg5Re6	44-48	5-3-5.8	5.8-6.2	1.8-2.2	-	-	1.0max

Standard Size: 0.6-6mm, 1-12mm, 3-25mm, 4-30mm
Standard Packing: 25kg bags on pallet or 25kg bags into 1000kg big bag.
All the composition of each element, other special element does not mention above, size and packing can be customized.

Cored Wire

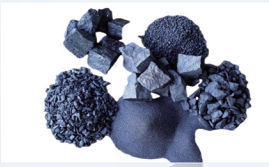
COMMODITY	Chemical Composition%								
	Si	Mg	RE	Ca	AL	Ba	Mn	Zr	Bi
CW-Mg15	43-48	14-16	0.8-1.2	2.5-3.5	1.0max	-	-	-	-
CW-Mg20RE0	43-48	20-22	-	2.5-3.5	1.0max	-	-	-	-
CW-BA	60-68	-	-	1.2-2.0	0.8-1.5	7-12	-	-	-
CW-BI	68-75	-	0.4-1.3	1.2-2.0	1.5max	0.1-0.6	-	-	0.4-1.3
CW-ZR	62-69	-	-	0.5-2	1.5max	0.3-0.7	1.8-2.9	2.0-3.0	-

Diameter: Φ13mm / Horizontal or Vertical
Standard Packing: on pallet.
All the composition of each element, other special element does not mention above, size and packing can be customized.

INOCULANT

COMMODITY	Chemical Composition%								
	Si	Bi	Ca	Ba	Sr	Zr	Re	Mn	Al
Ino-Bi	68-75	0.4-1.3	1.2-2.0	0.1-0.6	-	-	0.4-1.3	-	0.7-1.5
Ino-Sr	72-78	-	< 0.1	-	0.7-1.2	-	-	-	< 0.5
Ino-Al	>68	-	0.4-1.5	-	-	-	-	-	3.2-4.5
Ino-AlZr	>65	-	0.6-1.9	-	-	3-5	-	-	3-5
Ino-Zr	70-78	-	2.2-3	-	-	1.2-2	-	-	< 1.5
Ino-SrZr	70-78	-	<0.5	-	0.6-1.1	1-2	-	-	<0.7
Ino-Ba1	70-78	-	0.75-1.25	0.75-1.25	-	-	-	-	0.75-1.5
Ino-Ba2	70-76	-	1.0-2.0	2.0-3.0	-	-	-	-	< 1.5
Ino-Ba10	60-67	-	0.4-1.7	7.0-11.0	-	-	-	-	0.8-1.7
Ino-MnBa	60-65	-	0.8-2	4.0-6.0	-	-	-	7.0-12	< 1.5
Ino-MnZr2	62-69	-	0.6-1.9	0.3-0.8	-	2-3	-	1.9-2.8	< 1.5
Ino-MnZr3	62-69	-	0.6-1.9	0.3-0.8	-	3-5	-	2.8-4.5	0.5-1.5
Ino-La	46-50	-	2-3	-	-	-	La 1.8-2.2	-	0.5-1.5
Ino-Ce	70-76	-	0.75-1.25	-	-	-	Ce 1.5-2.5	-	0.75-1.25

Standard Size: Available in various sizes for ladle applications as well as in MSI-gradings.
Standard Packing: 25kg bags on pallet or 25kg bags into 1000kg big bag.
All the composition of each element, other special element does not mention above, size and packing can be customized.



7/487 M. 6 Mabyangporn Sub-district, Pluakdaeng District,
Rayong Province. Thailand. 21140
0066-38-020139-40
0066-38-020139-40
0066 630 457 300
www.soaralloy.com
soar.alloy1010@gmail.com

THE QUALITY IS CONFIRMED ISO9001:2015