



VALUSTAR

HIGH OXIDATION RESISTANCE & SIGNIFICANTLY IMPROVED LIFETIME

Overview

We offer a complete range of premium quality crucibles and accessories for the melting, holding, treatment and casting of ferrous and non-ferrous metals and metal alloys.

Manufactured from a wide range of high quality raw materials using advanced technologies, crucibles are available in a comprehensive range of sizes and shapes, for optimum performance in individual applications.

“KEEGOR” is a registered trade/brand name to the Keegor Group of companies and has become synonymous with the quality and reliability expected by the precious metals mining industry.

Introduction

VALuStar™ is the latest and most advanced family of crucibles developed by Morgan Molten Metal Systems. It is a high density, clay bonded, iso-statically pressed crucible, which has a high graphite and SiC content to give it a superior mechanical strength. VALuStar™ has excellent internal and external glazes, which prevent low temperature oxidation, and degradation of the crucible, that are common in aluminium and other low temperature alloys, when used over extended periods. As a result, VALuStar™ has a significantly longer life than all other iso - statically pressed crucibles for lower temperature applications and retains its good thermal conductivity over the entire life. VALuStar™, when combined with ST AR coating, delivers significantly less dross adhesion and reduced impurities in holding applications.





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Applications

VALuStar™ crucibles are designed to perform exceptionally well to hold Aluminium and Aluminium Alloys in electric resistance furnaces.

Performance Characteristics

- Significantly longer life due to higher oxidation resistance
- Excellent thermal conductivity and good thermal shock resistance
- High mechanical strength and good erosion resistance

Identification

VALuStar™ crucibles are finished with a blue Low Temperature Protection (LTP) coating.

Typical Metal Casting Temperature

700 - 1000 °C (1292 °F - 1832 °F)

Pattern Range

VALuStar™ crucibles are available in wide range of shapes and sizes, as per our current range of crucible models i.e. A, BU, BN, TP & TBN. The crucible can also be supplied with specialised & patented coatings developed by Morgan Molten Metal Systems to enhance specific properties required in the application.



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Quality

VALuStar™ crucibles are manufactured from premium grade raw materials under an ISO 9001:2015 quality management system.

Alternative Product

- Significantly longer life due to higher oxidation resistance
- Excellent thermal conductivity and good thermal shock resistance
- High mechanical strength and good erosion resistance



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Sizes and Configurations

Crucible, Cupel Sizes and Configurations					
40g/gt Crucible, possible cupel size and configurations					
F7	40g/t-(12Wx7D)	6AE	4-off (6W x 7D)	Total: 168	Cupels
F5	40g/t-(6Wx10D)	6AE	3-off (6Wx10D)	Total: 180	Cupels
F4	40g/t-(5Wx7D)	6AE	6-off (5Wx7D)	Total: 210	Cupels
F7	40g/t-(12Wx7D)	7AE	4-off (6Wx7D)	Total: 168	Cupels
F5	40g/t-(6Wx10D)	7AE	2-off (6Wx10D)	Total: 120	Cupels
F4	40g/t-(5Wx7D)	7AE	6-off (5Wx7D)	Total: 210	Cupels
F7	40g/t-(12Wx7D)	8	2-off (6Wx7D)	Total: 84	Cupels
F5	40g/t-(6Wx10D)	8	2-off (6Wx10D)	Total: 120	Cupels
F4	40g/t-(5Wx7D)	8	3-off (5Wx7D)	Total: 105	Cupels
F7	40g/t-(12Wx7D)	9	2-off (6Wx7D)	Total: 84	Cupels
F5	40g/t-(6Wx10D)	9	2-off (6Wx10D)	Total: 120	Cupels
F4	40g/t-(5Wx7D)	9	2-off (5Wx7D)	Total: 70	Cupels
F7	40g/t-(12Wx7D)	10	2-off (6Wx7D)	Total: 84	Cupels
F5	40g/t-(6Wx10D)	10	1-off (6Wx10D)	Total: 60	Cupels
F4	40g/t-(5Wx7D)	10	2-off (5Wx7D)	Total: 70	Cupels
50g & No.3 Crucible possible cupel size and configurations					
F7	50g/No.3-(10Wx5D)	6AE	4-Off (5Wx5D)	Total: 100	Cupels
F5	50g/No.3-(5Wx8D)	6AE	3-off (5Wx8D)	Total: 120	Cupels
F4	50g/No.3-(4Wx6D)	6AE	8-off (4WX6D)	Total: 192	Cupels
F7	50g/No.3-(10Wx5D)	7AE	4-off(5Wx5D)	Total: 100	Cupels
F5	50g/No.3-(5Wx8D)	7AE	3-off(5Wx8D)	Total: 120	Cupels
F4	50g/No.3-(4Wx6D)	7AE	8-off (4WX6D)	Total: 192	Cupels
F7	50g/No.3-(10Wx5D)	8	4-Off (5Wx5D)	Total: 100	Cupels
F5	50g/No.3-(5Wx8D)	8	3-off (5Wx8D)	Total: 120	Cupels
F4	50g/No.3-(4Wx6D)	8	6-off (4WX6D)	Total: 144	Cupels
F7	50g/No.3-(10Wx5D)	9	4-Off (5Wx5D)	Total: 100	Cupels
F5	50g/No.3-(5Wx8D)	9	2-off (5Wx8D)	Total: 80	Cupels
F4	50g/No.3-(4Wx6D)	9	6-off (4WX6D)	Total: 144	Cupels
F7	50g/No.3-(10Wx5D)	10	4-Off (5Wx5D)	Total: 100	Cupels
F5	50g/No.3-(5Wx8D)	10	2-off (5Wx8D)	Total: 80	Cupels
F4	50g/No.3-(4Wx6D)	10	2-off (4Wx6D)	Total: 48	Cupels



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Cupel Sizes and Configurations

Crucible, Cupel Sizes and Configurations Cont.					
No4 Crucible possible cupel size and configurations					
F7	No.4-(9Wx5D)	6AE	4-Off (9Wx5D)	Total: 180	Cupels
F5	No.4-(5Wx7D)	6AE	6-Off (5Wx7D)	Total: 210	Cupels
F4	No.4-(4Wx6D)	6AE	8-off(4Wx6D)	Total: 192	Cupels
F7	No.4-(9Wx5D)	7AE	2-Off (9Wx5D)	Total: 90	Cupels
F5	No.4-(5Wx7D)	7AE	6-Off (5Wx7D)	Total: 210	Cupels
F4	No.4-(4Wx6D)	7AE	8-off(4Wx6D)	Total: 192	Cupels
F7	No.4-(9Wx5D)	8	2-Off (9Wx5D)	Total: 90	Cupels
F5	No.4-(5Wx7D)	8	3-Off (5Wx7D)	Total: 105	Cupels
F4	No.4-(4Wx6D)	8	6-off(4Wx6D)	Total: 144	Cupels
F7	No.4-(9Wx5D)	9	2-Off (9Wx5D)	Total: 90	Cupels
F5	No.4-(5Wx7D)	9	2-Off (5Wx7D)	Total: 70	Cupels
F4	No.4-(4Wx6D)	9	3-off(4Wx6D)	Total: 72	Cupels
F7	No.4-(9Wx5D)	10	2-Off (9Wx5D)	Total: 90	Cupels
F5	No.4-(5Wx7D)	10	2-Off (5Wx7D)	Total: 70	Cupels
F4	No.4-(4Wx6D)	10	2-off(4Wx6D)	Total: 48	Cupels
No5 Crucible possible cupel size and configurations					
F7	No.5-(9Wx5D)	6AE	4-Off (9Wx5D)	Total: 180	Cupels
F5	No.5-(4Wx7D)	6AE	8-off(4Wx7D)	Total: 224	Cupels
F4	No.5-(3Wx5D)	6AE	10-off(3Wx5D)	Total: 150	Cupels
F7	No.5-(9Wx5D)	7AE	2-Off (9Wx5D)	Total: 90	Cupels
F5	No.5-(4Wx7D)	7AE	8-off(4Wx7D)	Total: 224	Cupels
F4	No.5-(3Wx5D)	7AE	10-off(3Wx5D)	Total: 150	Cupels
F7	No.5-(9Wx5D)	8	2-Off (9Wx5D)	Total: 90	Cupels
F5	No.5-(4Wx7D)	8	3-off(4Wx7D)	Total: 84	Cupels
F4	No.5-(3Wx5D)	8	10-off(3Wx5D)	Total: 150	Cupels
F7	No.5-(9Wx5D)	9	2-Off (9Wx5D)	Total: 90	Cupels
F5	No.5-(4Wx7D)	9	3-off(4Wx7D)	Total: 84	Cupels
F4	No.5-(3Wx5D)	9	8-off(3Wx5D)	Total: 120	Cupels
F7	No.5-(9Wx5D)	10	2-Off (9Wx5D)	Total: 90	Cupels
F5	No.5-(4Wx7D)	10	2-off(4Wx7D)	Total: 56	Cupels
F4	No.5-(3Wx5D)	10	6-off(3Wx5D)	Total: 90	Cupels
Other Crucible sizes and configurations can be accommodated					



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IMPORTANT INFORMATION

WARRANTY

- We, KEEGOR warrant the satisfactory operation and durability of the mechanical parts supplied by us for a period of 12 (TWELVE) months from date of commissioning or 15 (FIFTEEN) months from date of shipping (whichever expires first) and will replace free of charge any parts which may prove defective either through faulty design, materials, or workmanship, fair wear and tear or accidents due to faulty operation excepted. KEEGOR has been a key global role player in the Precious Metals Refining and Assaying Industry for +65 years, with a very long and distinguished track record.
- It is understood that this warranty does not apply to the refractory materials or consumable items.
- Notice of a claim for alleged defective equipment must be given within 14 (FOURTEEN) days of a defect becoming evident.
- This warranty is limited to the supply of replacement parts and labour only, as may be required - shipping / transport / travel costs are not included.
- Full support is available at our ruling rates after expiry of the warranty.
- KEEGOR is not liable for any consequential damages.
- Electronic and electrical components sourced from sub suppliers are excluded or subject to supplier warranty conditions.
- Power electronic components and items which are subject to usage and operational conditions, are excluded.
- The connecting, usage and maintenance of induction coils is excluded. In particular failures due to incorrect clamping or water cooling of coils to bus bars.
- The responsibility for maintaining the quality of the cooling water is outside of our control and therefore we assume no responsibility for problems arising due to the end user failing to meet our specifications. For queries relating to the water-cooling requirements, please contact our service department.
- The warranty is not valid unless the make-up water supply to the cooling tower is installed and functioning. All cooling systems, internal and external are to be maintained to comply with the specifications defined in the instruction manual.