

No.	Subject	Title
1.	A356 alloy	A comparative study of porosity and pore morphology in a directionally solidified A356 alloy
2.	Health & safety	A new strategy for today's environment
3.	Quality assurance	Acoustic resonance analysis for crack and structure testing in serial production
4.	Automation	Advantageous software tools for automation with robots
5.	Advantages of inorganic binder systems	Advantages of inorganic binder systems
6.	Binder	Advantages of inorganic binder systems
7.	Furnaces	Aluminum ingot preheater saves energy cost
8.	Light alloys	Alloy development broadens magnesium's appeal
9.	Light alloy	Alloy development broadens magnesium's appeal
10.	Aluminum ingot	Aluminum ingot preheater saves energy cost
11.	Energy	Aluminum ingot preheater saves energy cost
12.	Aluminum	Analysis of mold filling in lost foam casting of aluminum: Part II- example applications
13.	Lost foam	Analysis of mold filling in lost foam casting of aluminum: Part II- example applications
14.	Cleaning , Fetting & finishing	Automated shot blast solutions for high value castings
15.	Shot blast	Automated shot blast solutions for high value castings
16.	Die casting	Automatic computerized optimization in die casting processes
17.	Simulation	Automatic computerized optimization in die casting processes
18.	Complex castings	Automatic laser visual inspection of complex castings
19.	Simulation	Casting simulation drives component development for HPDC
20.	Forgings	Castings conquer the realm of forgings
21.	Moulding material	Characterization of carbon aerosands
22.	Investment casting	Characterization of zircon based slurries for investment casting
23.	Chemical Resistance	Chemical resistance of different hot work tool steels to molten aluminum
24.	Melting	Chemical resistance of different hot work tool steels to molten aluminum
25.	Molten Aluminum	Chemical resistance of different hot work tool steels to molten aluminum
26.	Tool Steels	Chemical resistance of different hot work tool steels to molten aluminum
27.	Cleaning , Fetting & finishing	Cleaning of complex shape cast parts
28.	Simulation	Comparative analysis of design variants by pouring simulation
29.	Austempered cast iron	Comparison of material properties in as cast and austempered cast irons with three different graphite morphologies
30.	Molding Material	Computational fluid dynamics of the core shooting process
31.	Simulation	Computational fluid dynamics of the core shooting process
32.	Quality assurance	Cost effective process control in foundries
33.	Automation	Cost effective production through automated casting cells
34.	Cylinder heads	Critical material issues in cast aluminium cylinder heads
35.	Composite castings	Damping behaviour of composite aluminium bronze castings with ceramic performs
36.	Austempered cast iron	Development of austempered ductile iron for high tensile and fracture toughness by two step austempering process
37.	Planning	Economic treatment of foundry waste waters
38.	Die Casting	Effect of cooling channel modifications upon the thermal behaviour of HP casting dies
39.	Aluminum casting	Effect of heat treatment on the operating strength of aluminum casting
40.	Cleaning, fettling and finishing	Efficient de- moulding of titanium sand castings by shot blasting
41.	Pressure die casting	Ejector pins reduce die wear
42.	Al alloys	Electro magnetic low pressure casting of Al alloys
43.	low pressure casting	Electro magnetic low pressure casting of Al alloys
44.	Management	Enhanced throughputs in foundries by constraints based planning methodology using a special ERP
45.	Planning	Enhanced throughputs in foundries by constraints based planning methodology using a special ERP
46.	Die Casting	Estimation of the local porosity of aluminium high pressure die casting components from casting simulation results using self organizing maps

47.	Simulation	Estimation of the local porosity of aluminium high pressure die casting components from casting simulation results using self organizing maps
48.	Quality Assurance	Fast and flexible inspection of castings
49.	Furnaces	Filtering ideas improve performance for launder users
50.	Cleaning , Fetting & finishing	Final decoring , cleaning and discharging of metal chips at engine parts
51.	Furnaces	Flexible and safe transport of liquid metals
52.	Liquid metals	Flexible and safe transport of liquid metals
53.	Health & safety	Foot protection in a foundry environment
54.	Ductile iron	Gating system design to cast thin wall ductile iron plates
55.	Gating	Gating system design to cast thin wall ductile iron plates
56.	Grey iron	Graphite nucleation in grey cast iron metals
57.	Nucleation	Graphite nucleation in grey cast iron metals
58.	Magnesium Castings	Hot isostatic pressing of magnesium castings
59.	Post Treatment	Hot isostatic pressing of magnesium castings
60.	Cast iron	Improvement of graphite morphology in cast iron
61.	Aluminum alloy	Improving mechanical properties of an aluminium alloy with chills
62.	Pouring Process	Improving mechanical properties of an aluminium alloy with chills
63.	Grey iron	Improving the mechanical properties of grey cast iron by alloying with nitrogen
64.	ALSi cast alloys	Influence of iron and manganese on porosity formation in ALSi cast alloys
65.	Aluminum chips	Inhouse recycling of aluminum chips
66.	Pouring process	Innovative feeder systems generate cost advantages in serial production
67.	Melting	Insulating lids offer further improvements to ladle temperature control
68.	Interaction	Interaction : ceramic mould metal in nickel superalloy castings
69.	Molding Material	Interaction : ceramic mould metal in nickel superalloy castings
70.	Materials	Interface active moulding sand additives for high performance materials
71.	Investment	Investment casting growth continuous casting
72.	Pressure die casting	LaserCusing technology optimizes die casting dies
73.	Light alloy	Light metals research in Scandinavia
74.	Light alloys	Light metals research in Scandinavia
75.	Pressure die casting	Low pressure casting A process which pays off
76.	Cleaning , Fetting & finishing	Machining of compacted graphite iron
77.	Furnaces	Meltin stock for cutting edge foundries
78.	Ceramic coating	New ceramic coating with increased lifetime
79.	Pouring process	New ceramic coating with increased lifetime
80.	Boron nitride	New generation of boron nitride
81.	Binders	New sand preparation system in Turkey implemented on the basis of the Evactherm process
82.	Core Making	New sand preparation system in turkey implemented on the basis of the Evactherm process
83.	Pouring process	New steps for reducing pollution in acid curing systems
84.	Pouring process	New theory on how casting filters work
85.	Cleaning, fettling and finishing	Non- cutting separation techniques for magnesium castings employed at the BMW light metal foundry in landshut
86.	Binders	Odours released by the individual components and ingredients of sand casting moulds
87.	Core Making	Odours released by the individual components and ingredients of sand casting moulds
88.	Metallic sponges	Open cell sponge structures: casting high melting alloys for biomedical applications
89.	Cupola furnace	Optimising plant Availability in cupola furnace melting shops
90.	Defects	Poor melt quality causes casting defects
91.	Melting	Poor melt quality causes casting defects
92.	Advantages of inorganic binder systems	Preparation system for bentonite bonded moulding sand
93.	Bentonite	Preparation system for bentonite bonded moulding sand
94.	Binder	Preparation system for bentonite bonded moulding sand
95.	Molding	Preparation system for bentonite bonded moulding sand
96.	Automation	Production planning software and automation solutions for foundries
97.	Health & safety	Putting safety first when operating fork lifts
98.	Pressure die casing	Reduced pressure casting and the effect of pressure on the part quality
99.	Magnesium alloy	Research into the industrial use of a new secondary magnesium alloy

100.	Aluminum	Research on the optimization of aluminum die life
101.	Quality assurance	Research on the optimization of aluminum die life
102.	Moulding material	Rheological behavior of sand bonder mixtures measured by a coaxial cylinder rheometer
103.	Sand binder	Rheological behavior of sand bonder mixtures measured by a coaxial cylinder rheometer
104.	Materials	Selecting the right material in tool and mould making
105.	Ductile iron	siC the most efficient addition to increase the nodule count in ductile iron
106.	Nodule count	siC the most efficient addition to increase the nodule count in ductile iron
107.	Sand	Simulating the production of casting moulds using clay bonded moulding sand compaction as an example
108.	Simulation	Simulating the production of casting moulds using clay bonded moulding sand compaction as an example
109.	Simulation	Simulation of microstructure and mechanical properties of magnesium structural components
110.	Molding	Simulation the production of casting moulds using clay bonded moulding sand compaction as an example
111.	Simulation	Simulation the production of casting moulds using clay bonded moulding sand compaction as an example
112.	Automation	Solution for flask scheduling in a foundry
113.	Simulation	Stress in casting dies simulation and practical example
114.	Crankshaft	Surface integrity of a crankshaft after induction surface hardening and Grinding
115.	Aluminum	Technology of the future for heavily loaded die cast aluminium engines
116.	Pressure die casting	Technology of the future for heavily loaded die cast aluminium engines
117.	Health & Safety	The advantages of anti fatigue and safety mats
118.	Aluminum alloy	The effect of temperature on the tensile strength of 20 vo% short fiber reinforced secondary S9C1GT6 aluminum alloy composite produced by indirect squeeze casting process
119.	Composite	The effect of temperature on the tensile strength of 20 vo% short fiber reinforced secondary S9C1GT6 aluminum alloy composite produced by indirect squeeze casting process
120.	Squeeze Casting	The effect of temperature on the tensile strength of 20 vo% short fiber reinforced secondary S9C1GT6 aluminum alloy composite produced by indirect squeeze casting process
121.	Grey iron	The influence of filter type and gating system design on the machinability of vertically parted grey iron castings
122.	Machinability	The influence of filter type and gating system design on the machinability of vertically parted grey iron castings
123.	Binders	The mechanisms of compaction in clay bonded moulding sands
124.	Core making	The mechanisms of compaction in clay bonded moulding sands
125.	Al-Si alloys	The modification of AL-Si casting alloys: Important practical and theoretical aspects : reader & author dialogue
126.	Lost wax process	Thermal process while pouring into ceramic shells and their numerical simulation
127.	Simulation	Thermal process while pouring into ceramic shells and their numerical simulation
128.	Austempered Ductile Iron	Thin wall ductile and Austempered iron castings as substitutes for aluminum alloy castings
129.	Material Substitution	Thin wall ductile and Austempered iron castings as substitutes for aluminum alloy castings
130.	Furnaces	Thirty years of pouring furnaces for grinding media 18production
131.	Light alloy	Transport drives light weighting research
132.	Light alloys	Transport drives light weighting research
133.	Liquid metals	Transport of liquid metals
134.	Planning	Up-to-date approach to modernization : combination o old and new equipment
135.	Binders	Using mechanised moulding plants in cold resin moulding
136.	Core Making	Using mechanised moulding plants in cold resin moulding
137.	CDC process	Using the CDC process for casting of low cost functionally gradient materials
138.	Furnaces	Why pre-heat ingots?