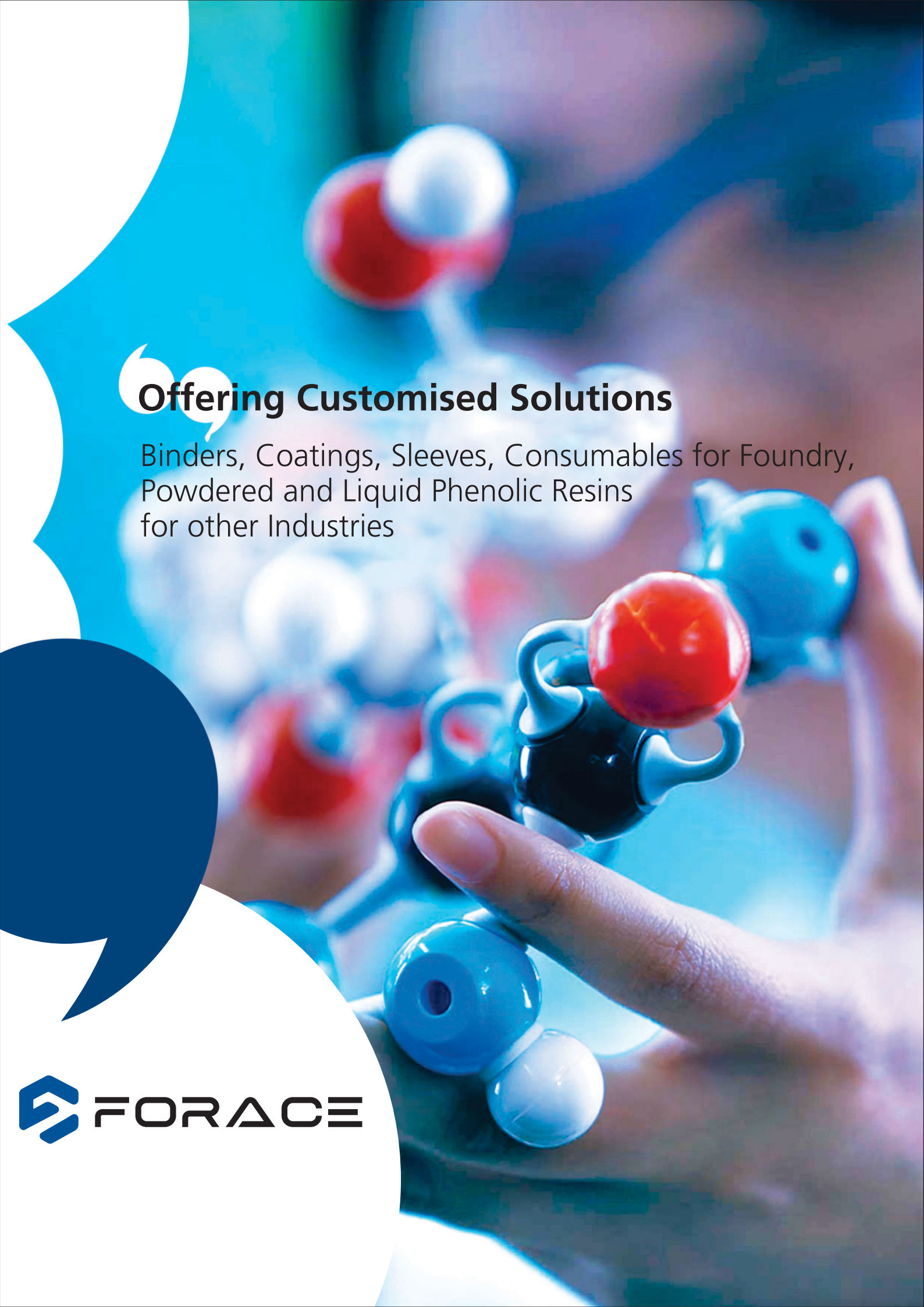


Offering Customised Solutions

Binders, Coatings, Sleeves, Consumables for Foundry,
Powdered and Liquid Phenolic Resins
for other Industries

FORACE



The Forace Advantage

Designing products to suit individual customer needs

Consistent quality

Prompt delivery

Wide network of field representatives – prompt response, easy accessibility

We Serve

Foundry Industry	:	Consumables for Ferrous, Non Ferrous Foundries
Adhesive Industry	:	PTBP Resins, Rosin Mod. Resins, Terpene Phenolics, Solvents
Rubber/ Tire Industry	:	Resins, Releases, Coupling Agents, Additives, Waxes
Paint & Ink Industry	:	Resins, Rosin Mod. Resins, Solvents
Refractory Industry	:	Powdered, Liquid Phenolic Resins
Abrasive Industry	:	Bonded, Coated Resins
Friction Industry	:	Resins, Additives, Releases
Felt Industry	:	Resins, Releases
Speciality Resins	:	Resin for Rockwool, Glass fibre Composites, Filter Paper, Scrub Pads
Speciality Chemicals	:	Plasticizers, Solvents

Vision

Continuous striving for leadership in the field of speciality resins and foundry chemicals.

Striving

A state of mind throughout the organisation, never being satisfied with the status quo and constantly striving to be better and to do new things.

Leadership

Leadership in the eyes of our customers through our thoughts, behaviour, actions and achievements. Build stronger relationship with our existing customers and reach out to new customers through innovation.

Mission

To provide value to our customers and business partners with quality products, innovative solutions and responsive services.

Values

We believe, our customers define the success of our organisation. The customers are always at the top of our mind in everything we do.

Our people are the heart of the organisation, and we give them the freedom to achieve through clarity of direction and free flow of information.

We have a responsibility to make a positive contribution to the society by our business interfaces.

Profile

Forace was founded in 1980 to address the need for a reliable source of resins in North India. Since then, it has experienced exponential growth and has secured a prominent position in the industry, exporting resins to approximately 28 countries worldwide. By consistently delivering excellent quality, exceptional performance, and outstanding customer service, Forace has emerged as a leader in foundry consumables both ferrous and non-ferrous and has become the largest producer of phenolic and furan resins in the Indian subcontinent.



In its portfolio, Forace offers refractory coatings, exothermic/insulating and HD sleeves, core glues, specialty resin coated sand for manufacturing intricate ferrous and non-ferrous castings, along with speciality release agents and other foundry consumables. The company provides a comprehensive range of consumables for the non-ferrous industry, including those used in high-pressure die-casting, low-pressure die-casting, gravity die-casting, smelters, and extrusion processes.



Demonstrating its commitment to backward integration, Forace manufactures its own key raw materials including para-toluenesulfonic acid (PTSA), ethylene glycol diacetate (EGDA), triacetin and dibasic ester (DBE), para-tertiary-octylphenol (PTOP), formaldehyde, para-formaldehyde & hexamine.

The company also supplies high-quality speciality phenolic resins for various applications, such as tire & rubber, refractory, abrasive, friction, filter paper, resin-felt, scrub pads, glass fiber-reinforced composite and rockwool.



Additionally, Forace produces resins, rosin modified resins and solvents for the paint and ink industry.

Forace product portfolio further extends to alkyl phenolic (PTBP resin), rosin ester gum, penta penta ester gum, terpene phenolic and solvents for adhesive industry.



Forace also manufactures resins, coupling agents, processing aids, waxes, HMMM, non-sticky rosin (in pellets) and terpene phenolic for the tire and rubber industries.

Through its partnership Forace-TAG, it offers high performance, new generation release agents for multiple segments, including tire & rubber, friction, composite, brake lining, headliner, wood composite, polyurethane, shoe sole, footwear, forging etc.

Forace collaborates with 10 leading global companies, providing their products and solutions to a wide range of customers.

Forace operates four specialized manufacturing units under Forace Speciality Chem Pvt. Ltd. in Haridwar, Uttarakhand as well as in Gujarat.

To ensure timely delivery to its customers, Forace has strategically established warehouses in Ahmedabad, Jamshedpur, Coimbatore, and Kolhapur, Durban, Johannesburg and UAE.

Forace has got 80 techno-commercial experts in various parts of India and sub-continents to closely work with our customers for providing technical and commercial support.









Facilities

Equipped with state-of-the-art DCS-controlled, fully automatic manufacturing facilities, the company has an installed capacity of 2,40,000 MT of resins at Haridwar, Uttarakhand and Gujarat.

Forace produces a full range of coatings and sleeves for foundries using the most modern equipment, with an installed capacity of 60,000 MT per annum at Haridwar, Uttarakhand and Gujarat.

A resin coated sand plant, established with the latest technology, has an installed capacity of 72,000 MT per annum at Haridwar, Uttarakhand and Gujarat.

Forace supplies non-ferrous consumables from a 24,000 MT per annum plant at Haridwar, Uttarakhand and Gujarat.

In addition, Forace operates a coating & consumables plant in South Africa with a capacity of 6,000 MT per annum.

To ensure automation and traceability, Forace employs the latest technologies, including SAP S4 HANA, a distributed control system (DCS), and a warehouse management system (WMS).

The company's greatest strength lies in its technically proficient workforce, which operates the Forace plants around the clock to facilitate seamless execution of all assignments.









Quality

Forace holds ISO 45001:2018, ISO 14001:2015, and ISO 9001:2015 certifications, reflecting its commitment to delivering products of the highest quality that precisely meet customer needs. The company is also European Reach certified.

Moreover, Forace has achieved IATF 16949 certification, underscoring the robustness of its quality management system.

Forace laboratories are outfitted with state-of-the-art equipment—including gas chromatography (GC), gel permeation chromatography (GPC), thermogravimetric analysis (TGA), flame photometer, kjaldahl, high-performance liquid chromatography (HPLC), fourier transform infrared spectroscopy (FTIR), and differential scanning calorimetry (DSC).

Through Forace warehouse management system (WMS) and the use of QR code technology, Forace ensures full traceability across every stage of production, from receiving raw materials to shipping finished products.

In addition, the company's automated and rigorously controlled manufacturing processes guarantees a consistently high standard of quality.







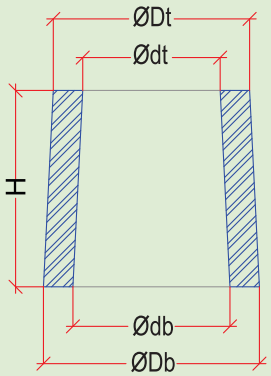




FOREX 800 (XP)

FOREX 800 (XP) are a range of highly exothermic feeder sleeves used to feed all types of iron and steel castings having MEF range 1.7-1.8.
These feeder sleeved are available in OPEN, BLIND, NECK DOWN AND OVAL SHAPES in diameters from 25mm to 150mm.

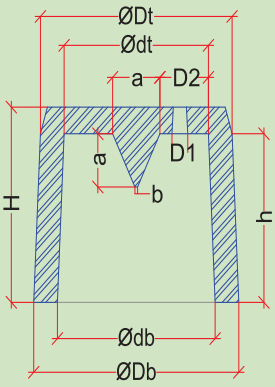




Product Name: FOREX 800 (XP)
Product Description: Highly Exothermic Open Sleeve Size Upto 6"

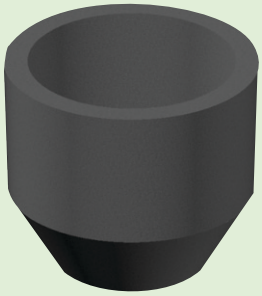
Sleeve Size	Modulus (mm)		Volume (cc)	Nominal Dimensions (mm)				
	Effective	Geometic		Ødb	ØDb	Ødt	ØDt	H
30x75 (o)	9.64	5.36	37	27	47	23	43	75
40x75 (o)	13.79	7.66	87	41.5	62.5	35.5	56.5	75
50x75 (o)	16.88	9.38	147	52	73.5	48	69.5	75
50x100 (o)	17.86	9.92	193	52	73.5	47	68.5	100
60x75 (o)	18.11	10.06	178	57.5	80	52.5	75	75
65x100 (o)	21.17	11.76	297	64	88.5	59	83.5	100
70x100 (o)	22.65	12.58	355	69.5	94	65	89.5	100
80x100 (o)	24.60	13.67	445	79	104	71.5	96.5	100
80x125 (o)	26.03	14.46	556	79	104	71.5	96.5	125
80x150 (o)	27.07	15.04	668	79	107	71.5	100	150
90x150 (o)	29.81	16.56	852	89	118	81	111	150
100x150 (o)	32.21	17.89	1041	97	127.5	91	121.5	150
120x150 (o)	36.94	20.52	1505	116	148	110	142	150
130x150 (o)	38.69	21.49	1711	124	158	117	151	150
140x150 (o)	41.47	23.04	2084	136	171	130	165	150
150x150 (o)	43.47	24.15	2393	146	182	139	175	150

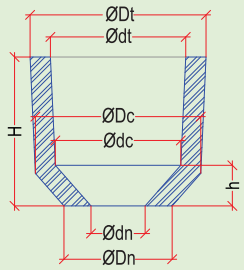




Product Name: FOREX 800 (XP)
Product Description: Highly Exothermic Blind Sleeve

Sleeve Size	Modulus (mm)		Volume (cc)	Nominal Dimensions (mm)						William's Wedge Dimensions (mm)		Vent Hole Dimensions (mm)	
	Effective	Geometic		Ødb	ØDb	Ødt	ØDt	h	H	a	b	ØD1	ØD2
35x50 (B)	9.84	5.3	31	35	47.5	30.5	44	39.5	49.5	12	2	-	-
30x80 (B)	9.05	5.1	34	27	47	23	43	72	80	10	2	5	4
40x70 (B)	12.49	6.9	68	41.5	62.5	35.5	56.5	62	71.5	14	2	7	5
50x80 (B)	15.66	8.7	131	52	73.5	48	69.5	70	80	16	2	10	8
50x110 (B)	15.86	9.4	184	52	73.5	47	68.5	100	110	18	2	10	8
80x90 (B)	17.31	9.6	177	57.5	80	52.5	75	78.5	91	18	2	10	8
70x100 (B)	20.61	11.5	294	69.5	94	65	89.5	87	99	20	3	12	10
80x110 (B)	23.01	12.9	410	79	104	71.5	96.5	96.5	109	22	3	14	12
80x140 (B)	24.58	13.9	537	79	104	71.5	96.5	125	138	22	3	14	12
80x170 (B)	25.57	14.5	646	79	104	71.5	96.5	150	163	24	3	16	14
90x120 (B)	25.68	14.4	567	89	115	81	106	104.5	120	24	3	16	14
90x170 (B)	28.15	15.9	821	89	115	81	107	150	164	26	3	18	16
100x130 (B)	28.57	16.1	785	97	127.5	91	121.5	118	133.5	26	3	18	16
100x170 (B)	30.42	17.2	1002	97	127.5	91	121.5	150	165	28	3	18	16
120x150 (B)	33.89	19.2	1302	118	154.5	112	148	130	150	28	3	18	16
120x170 (B)	34.88	19.8	1457	116	148	110	142	150	165	28	3	18	16
130x170 (B)	36.54	20.8	1660	124	158	117	151	150	165	28	3	20	18
140x170 (B)	39.16	22.3	2018	136	170	130	165	150	165	30	4	20	18
150x170 (B)	41.06	23.4	2322	146	182	139	175	150	165	30	4	22	20

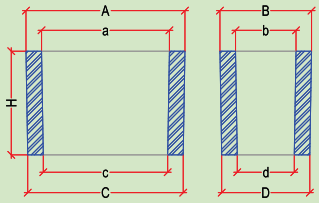




Product Name: FOREX 800 (XP)
Product Description: Highly Exothermic Neck Down Upto 6”

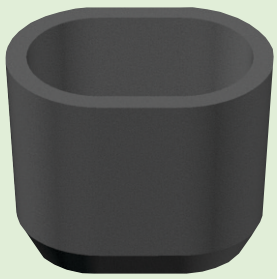
Sleeve Size	Modulus (mm)		Volume (cc)	Nominal Dimensions (mm)							
	Effective	Geometic		Ødt	ØDt	ØDc	Ødc	ØDn	Ødn	h	H
ND 1.5	12.42	6.9	55	38	58	53	33	40	20	12	60
ND 2	15.3	8.5	86	50	73.1	64.5	42	48.1	20	15.7	60
ND 2.5	20.16	11.2	216	63	87.5	82.5	58.5	56	30	23	85
ND 3	22.5	12.5	291	75	101.6	92.5	67	61.7	30	26.42	87
ND 4	30.24	16.8	697	100	130	121.5	92	76.62	40	37.13	115
ND 5	37.26	20.7	1310	127	159	150.5	119	89.06	50	49.27	135
Nd 6	44.1	24.5	2193	150	186	177.6	142	103.95	60	58.5	160

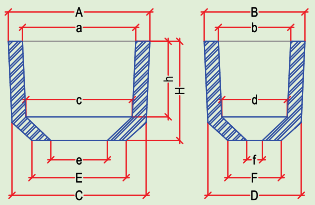




Product Name: FOREX 800 (XP)
Product Description: Highly Exothermic Oval Open Sleeve

Sleeve Size	Modulus (mm)		Volume (cc)	Nominal Dimensions (mm)								
	Effective	Geometic		a	A	b	B	c	C	d	D	H
2x4x4 (OL)	22.22	13.89	472	100	134	50	84	104	130	54	80	100
2.5x5x5 (OL)	27.76	17.35	919	125	161	63	99	129	157	67	95	125
2.5x7x5 (OL)	32.35	20.22	1184	178	212	46	80	190	224	64	98	135
3x6x6 (OL)	33.12	20.7	1565	150	188	75	113	154	184	79	109	150
3.5x6.5x6 (OL)	36.00	22.5	1994	165	202	88	126	169	199	92	122	150
4x7x6 (OL)	38.13	23.83	2373	175	219	100	144	179	215	104	140	150
5x7x6 (OL)	40.32	25.2	2852	175	219	125	169	179	215	129	165	150
6x8x6 (OL)	41.78	27.85	3862	200	248	150	198	204	244	154	194	150
7x10x8 (OL)	52.35	34.9	7576	250	302	175	227	254	298	179	223	200





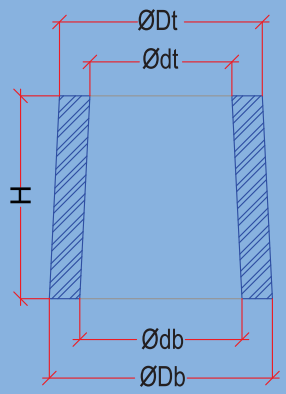
Product Name: FOREX 800 (XP)
Product Description: Highly Exothermic Oval Neck Down Sleeve

Sleeve Size	Volume (cc)	Nominal Dimensions (mm)													
		a	A	b	B	c	C	d	D	e	E	f	F	h	H
ND 75x90 (OL)	265	81	103	51	73	75	97	45	67	55	81	20	46	73	90
ND 80x100 (OL)	330	86	110	52	76	80	104	46	70	51	81	20	47	82	102
ND 85x75 (OL)	391	95	125	58	88	85	115	48	78	68	68	31	61	60	75

FOREX 400

FOREX 400 are a range of exothermic feeder sleeves used to feed all types of iron and steel castings having MEF range 1.5-1.6.
These feeder sleeved are available in OPEN, BLIND, NECK DOWN Shapes in diameters from 25mm to 150mm.

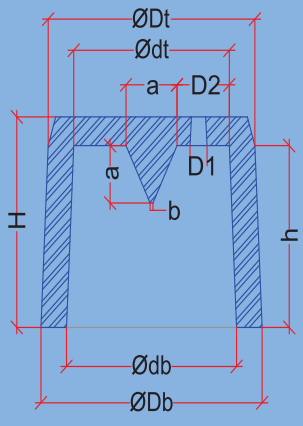




Product Name : FOREX 400
Product Description : Exothermic Open Sleeve size upto 6"

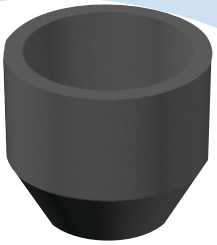
Sleeve Size	Modulus (mm)		Volume (cc)	Nominal Dimensions (mm)				
	Effective	Geometic		Ødb	ØDb	Ødt	ØDt	H
30x75 (O)	8.57	5.36	37	27	47	23	43	75
40x75 (O)	12.25	7.66	87	41.5	62.5	35.5	56.5	75
50x75 (O)	15.00	9.38	147	52	73.5	48	69.5	75
50x100 (O)	15.87	9.92	193	52	73.5	47	68.5	100
60x75 (O)	16.10	10.06	178	57.5	80	52.5	75	75
65x100 (O)	18.81	11.76	297	64	88.5	59	83.5	100
70x100 (O)	20.13	12.58	355	69.5	94	65	89.5	100
80x100 (O)	23.87	13.67	445	79	104	71.5	96.5	100
80x125 (O)	23.14	14.46	556	79	104	71.5	96.5	125
80x150 (O)	24.06	15.04	668	79	107	71.5	100	150
90x150 (O)	26.49	16.56	852	89	118	81	111	150
100x150 (O)	28.63	17.89	1041	97	127.5	91	121.5	150
120x150 (O)	32.83	20.52	1505	116	148	110	142	150
130x150 (O)	34.39	21.49	1711	124	158	117	151	150
140x150 (O)	36.86	23.04	2084	136	171	130	165	150
150x150 (O)	38.64	24.15	2393	146	182	139	175	150

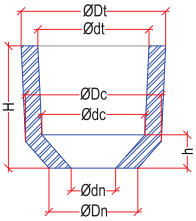




Product Name : FOREX 400
Product Description : Exothermic Blind Sleeve

Sleeve Size	Modulus (mm)		Volume (cc)	Nominal Dimensions (mm)						William's Wedge Dimensions (mm)		Vent Hole Dimensions (mm)	
	Effective	Geometic		Ødb	ØDb	Ødt	ØDt	h	H	a	b	ØD1	ØD2
35x50 (B)	9.26	5.79	31	35	47.5	30.5	44	39.5	49.5	12	2	-	-
30x80 (B)	8.52	5.33	34	27	47	23	43	72	80	10	2	5	4
40x70 (B)	11.75	7.34	68	41.5	62.5	35.5	56.5	62	71.5	14	2	7	5
50x80 (B)	14.75	9.21	131	52	73.5	48	69.5	70	80	16	2	10	8
50x110 (B)	15.87	9.92	184	52	73.5	47	68.5	100	110	18	2	10	8
60x90 (B)	16.29	10.18	177	57.5	80	52.5	75	78.5	91	18	2	10	8
70x100 (B)	19.40	12.13	294	69.5	94	65	89.5	87	99	20	3	12	10
80x110 (B)	21.66	13.54	410	79	104	71.5	96.5	96.5	109	22	3	14	12
80x140 (B)	23.14	14.46	537	79	104	71.5	96.5	125	138	22	3	14	12
80x170 (B)	24.06	15.04	646	79	104	71.5	96.5	150	163	24	3	16	14
90x120 (B)	21.17	15.11	567	89	115	81	106	104.5	120	24	3	16	14
90x170 (B)	26.49	16.56	821	89	115	81	107	150	164	26	3	18	16
100x130 (B)	26.89	16.81	785	97	127.5	91	121.5	118	133.5	26	3	18	16
100x170 (B)	28.63	17.89	1002	97	127.5	91	121.5	150	165	28	3	18	16
120x150 (B)	31.89	19.93	1302	118	154.5	112	148	130	150	28	3	18	16
120x170 (B)	32.83	20.52	1457	116	148	110	142	150	165	28	3	18	16
130x170 (B)	34.39	21.49	1660	124	158	117	151	150	165	28	3	20	18
140x170 (B)	36.86	23.04	2018	136	170	130	165	150	165	30	4	20	18
150x170 (B)	38.64	24.15	2322	146	182	139	175	150	165	30	4	22	20





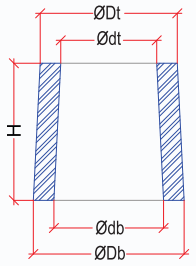
Product Name: FOREX 400
Product Description: Exothermic Neck Down Upto 6”

Sleeve Size	Modulus (mm)		Volume (cc)	Nominal Dimensions (mm)							
	Effective	Geometic		Ødt	ØDt	ØDc	Ødc	ØDn	Ødn	h	H
ND 1.5	11.04	6.9	55	38	58	53	33	40	20	12	60
ND 2	13.6	8.5	86	50	73.1	64.4	42	48.1	20	15.7	60
ND 2.5	17.92	11.2	216	63	87.5	82.5	58.5	56	30	23	85
ND 3	20	12.5	291	75	101.6	92.5	67	61.74	30	26.42	87
ND 4	26.88	16.8	697	100	130	121.5	92	76.62	40	37.13	115
ND 5	33.12	20.7	1310	127	159	150.5	119	89.06	50	49.27	135
ND 6	39.2	24.5	2193	150	186	177.6	142	103.95	60	58.5	160

FOREX 200

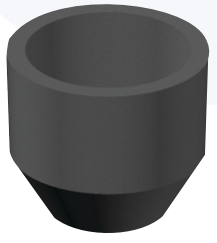
FOREX 200 are a range of exothermic feeder sleeves used to feed all types of iron and steel castings having MEF range 1.45-1.5.
These feeder sleeved are available in OPEN and NECK DOWN Shapes in diameters from 180mm to 400mm.

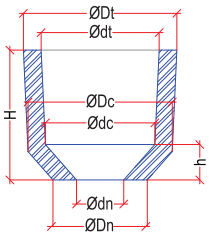




Product Name: FOREX 200
Product Description: Exothermic Open Sleeve Size Above 6”

Sleeve Size	Modulus (mm)			Nominal Dimensions (mm)				
	Effective	Geometic	Volume (cc)	Ødb	ØDb	Ødt	ØDt	H
180x150 (O)	41.48	28.61	4030	190	223	180	213	150
200x150 (O)	44.15	30.45	4948	210	246	200	236	150
225x150 (O)	47.19	32.55	6229	235	273	225	263	150
150x200 (O)	40.50	27.93	3772	160	190	150	180	200
180x200 (O)	45.85	31.62	5372	190	223	180	213	200
200x200 (O)	49.13	33.88	6598	210	246	200	236	200
225x200 (O)	52.94	36.51	8305	235	273	225	263	200
250x200 (O)	56.45	38.93	10209	260	300	250	290	200
275x200(O)	59.71	41.18	12309	285	327	275	317	200
300x200 (O)	62.73	43.26	14605	310	355	300	345	200
325x200 (O)	65.55	45.21	17097	335	380	325	370	200
350x200 (O)	68.18	47.02	19786	360	409	350	399	200
375x200 (O)	70.64	48.72	22671	385	434	375	424	200
400x200 (O)	72.95	50.31	25752	410	459	400	449	200



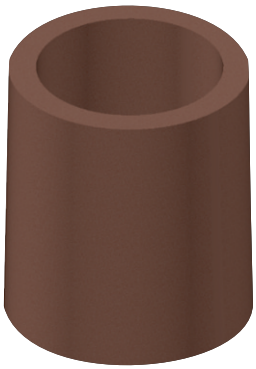


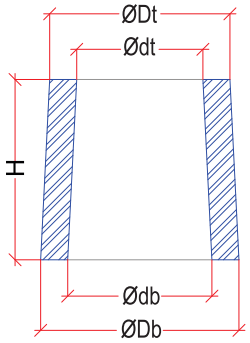
Product Name: FOREX 200
Product Description: Exothermic Neck Down Above 6”

Sleeve Size	Modulus (mm)		Volume (cc)	Nominal Dimensions (mm)				
	Effective	Geometic		Ødc	Ødn	h	H	T
ND 150	40.60	28	3483	150	75	75	200	6
ND 180	43.50	30	4180	180	90	90	200	6
ND 200	46.40	32	5007	200	100	100	200	6
ND 225	49.30	34	6105	225	112	112	200	6
ND 250	51.48	35.5	7300	250	125	125	200	6
ND 275	53.65	37	8447	275	138	138	200	6
ND 300	55.10	38	9440	300	150	150	200	6

FORIN 1001 (XP)

FORIN 1001 are a range of insulating feeder sleeves used to feed all types of iron and steel castings having MEF range 1.4-1.5.
These feeder sleeves are available in OPEN, BLIND, NECK DOWN AND OVAL in diameters from 25mm to 150mm.

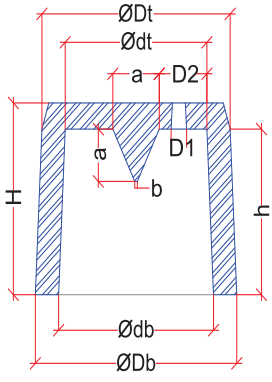




Product Name: FORIN 1001 (XP)
Product Description: Insulating Open Sleeve Size Upto 6"

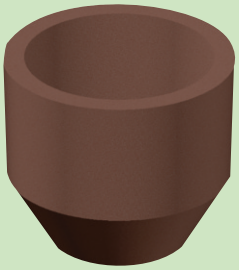
Sleeve Size	Modulus (mm)		Volume (cc)	Nominal Dimensions (mm)				
	Effective	Geometic		Ødb	ØDb	Ødt	ØDt	H
30x75 (O)	8.04	5.36	37	27	47	23	43	75
40x75 (O)	11.49	7.66	87	41.5	62.5	35.5	56.5	75
50x75 (O)	14.06	9.38	147	52	73.5	48	69.5	75
50x100 (O)	14.88	9.92	193	52	73.5	47	68.5	100
60x75 (O)	15.09	10.06	178	57.5	80	52.5	75	75
65x100 (O)	17.64	11.76	297	64	88.5	59	83.5	100
70x100 (O)	18.87	12.58	355	69.5	94	65	89.5	100
80x100 (O)	20.50	13.67	345	79	104	71.5	96.5	100
80x125 (O)	21.69	14.46	556	79	104	71.5	96.5	125
80x150 (O)	22.56	15.04	668	79	107	71.5	100	150
90x150 (O)	24.84	16.56	852	89	118	81	111	150
100x150 (O)	26.84	17.89	1041	97	127.5	91	121.5	150
120x150 (O)	30.78	20.52	1505	116	148	110	142	150
130x150 (O)	32.24	21.49	1711	124	158	117	151	150
140x150 (O)	34.56	23.04	2084	136	171	130	165	150
150x150 (O)	36.23	24.15	2383	146	182	139	175	150

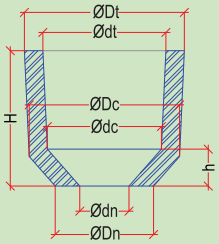




Product Name: FORIN 1001 (XP)
Product Description: Insulating Blind Sleeve

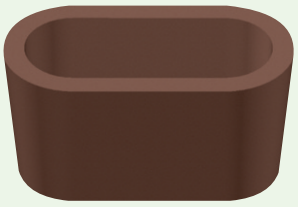
Sleeve Size	Modulus (mm)		Volume (cc)	Nominal Dimensions (mm)						William's Wedge Dimensions (mm)		Vent Hole Dimensions (mm)	
	Effective	Geometic		Ødb	ØDb	Ødt	ØDt	h	H	a	b	ØD1	ØD2
35x50 (B)	7.95	5.3	31	35	47.5	30.5	44	39.5	49.5	12	2	-	-
30X80 (B)	7.65	5.1	34	27	47	23	43	72	80	10	2	5	4
40x70 (B)	10.35	6.9	68	41.5	62.5	35.5	56.5	62	71.5	14	2	7	5
50x80 (B)	13.05	8.7	131	52	73.5	48	69.5	70	80	16	2	10	8
50x110 (B)	14.10	9.4	184	52	73.5	47	68.5	100	110	18	2	10	8
60x90 (B)	14.40	9.6	177	57.5	80	52.5	75	78.5	91	18	2	10	8
70x100 (B)	17.25	11.5	294	69.5	94	65	89.5	87	99	20	3	12	10
80x110 (B)	19.35	12.9	410	79	104	71.5	96.5	96.5	109	22	3	14	12
80x140 (B)	20.85	13.9	537	79	104	71.5	96.5	125	138	22	3	14	12
80x170 (B)	21.75	14.5	646	79	104	71.5	96.5	150	163	24	3	16	14
90x120 (B)	21.60	14.4	567	89	115	81	106	104.5	120	24	3	16	14
90x170 (B)	23.85	15.9	821	89	115	81	107	150	164	26	3	18	16
100x130 (B)	24.15	16.1	785	97	127.5	91	121.5	118	133.5	26	3	18	16
100x170 (B)	25.80	17.2	1002	97	127.5	91	121.5	150	165	28	3	18	16
120x150 (B)	28.80	19.2	1302	118	154.5	112	148	130	150	28	3	18	16
120x170 (B)	29.70	19.8	1457	116	148	110	142	150	165	28	3	18	16
130x170 (B)	31.20	20.8	1660	124	158	117	151	150	165	28	3	20	18
140x170 (B)	33.45	22.3	2018	136	170	130	165	150	165	30	4	20	18
150x170 (B)	35.10	23.4	2322	146	182	139	175	150	165	30	4	22	20

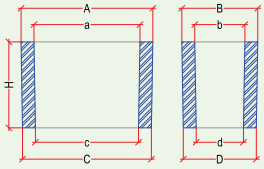




Product Name: FORIN 1001 (XP)
Product Description: Insulating Neck Down Upto 6”

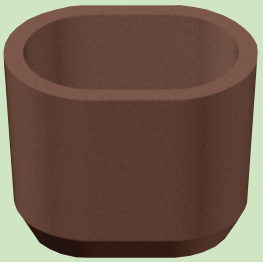
Sleeve Size	Modulus (mm)		Volume (cc)	Nominal Dimensions (mm)							
	Effective	Geometic		Ødt	ØDt	ØDc	Ødc	ØDn	Ødn	h	H
ND 1.5	10.35	6.9	55	38	58	53	33	40	20	12	60
ND 2	12.75	8.5	86	50	73.1	64.4	42	48.1	20	15.7	60
ND 2.5	16.8	11.2	216	63	87.5	82.5	58.5	56	30	23	85
ND 3	18.75	12.5	291	75	101.6	92.5	67	61.74	30	26.42	87
ND 4	25.2	16.8	697	100	130	121.5	92	76.62	40	37.13	115
ND 5	31.05	20.7	1310	127	159	150.5	119	89.06	50	49.27	135
ND 6	36.75	24.5	2193	150	186	177.6	142	103.95	60	58.5	160

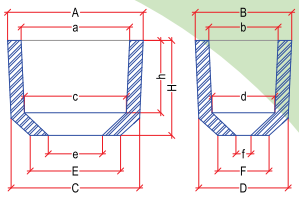




Product Name: FORIN 1001 (XP)
Product Description: Insulating Oval Open Sleeve

Sleeve Size	Modulus (mm)		Volume (cc)	Nominal Dimensions (mm)								
	Effective	Geometic		a	A	b	B	c	C	d	D	H
2X4X4 (OL)	20.85	13.9	472	100	134	50	84	104	130	54	80	100
2.5X5X5 (OL)	26.01	17.34	919	125	161	63	99	129	157	67	95	125
2.5x7x5 (OL)	30.32	20.21	1184	178	212	46	80	190	224	64	98	125
3x6x6 (OL)	31.08	20.72	1565	150	188	75	113	154	184	79	109	150
3.5x6.5x6 (OL)	33.74	22.49	1994	165	202	88	126	169	199	92	122	150
4x7x6 (OL)	35.72	23.81	2373	175	219	100	144	179	215	104	140	150
5x7x6 (OL)	37.83	25.22	2852	175	219	125	169	179	215	129	165	150
6x8x6 (OL)	38.96	27.83	3862	200	248	150	198	204	244	154	194	150
7x10x8 (OL)	48.87	34.91	7576	250	302	175	227	254	298	179	223	200



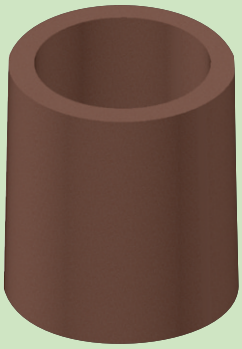


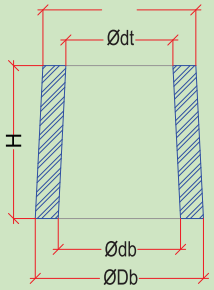
Product Name: FORIN 1001 (XP)
Product Description: Insulating Oval Neck Down Sleeve

Sleeve Size	Volume (cc)	Nominal Dimensions (mm)													
		a	A	b	B	c	C	d	D	e	E	f	F	h	H
ND 75x90 (OL)	265	81	103	51	73	75	97	45	67	55	81	20	46	73	90
ND 80x100 (OL)	330	86	110	52	76	80	104	46	70	51	81	20	47	82	102
ND 85x75 (OL)	391	95	125	58	88	85	115	48	78	68	98	31	61	60	75

FORIN 2001

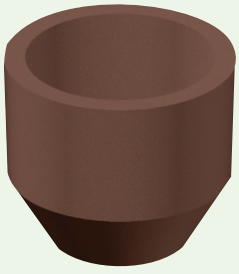
FORIN 2001 are a range of insulating feeder sleeves used to feed all types of iron and steel castings having MEF range 1.4-1.45.
These feeder sleeves are available in OPEN, BLIND, NECK DOWN Shapes in diameters from 180mm to 400mm.

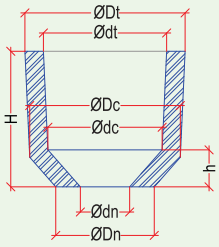




Product Name: FORIN 2001
Product Description: Insulating Open Sleeve Size Above Upto 6"

Sleeve Size	Modulus (mm)		Volume (cc)	Nominal Dimensions (mm)				
	Effective	Geometic		Ødb	ØDb	Ødt	ØDt	H
180X150 (O)	40.05	28.61	4030	190	223	180	213	150
200X150 (O)	42.63	30.45	4948	210	246	200	236	150
225X150 (O)	45.57	32.55	6229	235	273	225	263	150
150X200 (O)	39.10	27.93	3772	160	190	150	180	200
180X200 (O)	44.27	31.62	5373	190	223	180	213	200
200X200 (O)	47.43	33.88	6598	210	246	200	236	200
225X200 (O)	51.11	36.51	8305	235	273	225	263	200
250X200 (O)	54.50	38.93	10209	260	300	250	290	200
275X200 (O)	57.65	41.18	12309	285	327	275	317	200
300X200 (O)	60.56	43.26	14605	310	355	300	345	200
325X200 (O)	63.29	45.21	17097	335	380	325	370	200
350X200 (O)	65.83	47.21	19786	360	409	350	399	200
375X200 (O)	68.21	48.72	22671	385	434	375	424	200
400X200 (O)	70.43	50.31	25752	410	459	400400	449	200



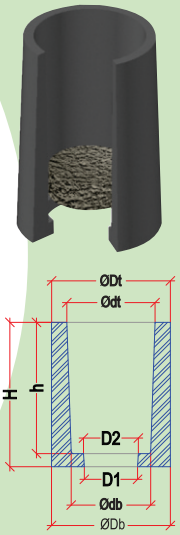


Product Name: FORIN 2001
Product Description: Insulating Neck Down Above 6"

Sleeve Size	Modulus (mm)		Volume (cc)	Nominal Dimensions (mm)				
	Effective	Geometic		Ødc	Ødn	h	H	T
ND 150	39.20	28	3483	150	75	75	200	6
ND 180	42.00	30	4180	180	90	90	200	6
ND 200	44.80	32	5007	200	100	100	200	6
ND 225	47.60	34	6105	225	112	112	200	6
ND 250	49.70	35.5	7300	250	125	125	200	8
ND 275	51.80	37	8447	275	138	138	200	8
ND 300	53.20	38	9440	300	150	150	200	8

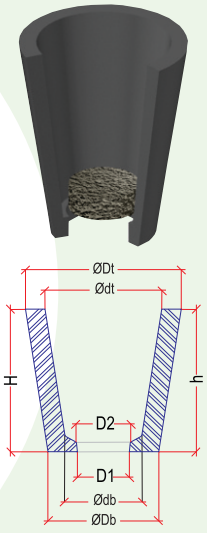
FORPOUR IN

FORPOUR IN is range of Exothermic and Insulating direct pour feeder filter system all grades and types of steel and iron castings with MEF range of around 1.5.
FORPOUR is available from filter diameters of 40mm to 90mm in Reverse Taper and Parallel Taper type of units.



Product Name: FORPOUR IN-RT
Product Description: Direct Pour Filter Sleeve-Reverse Taper

Sleeve Size	Modulus (mm)		Volume (cc)	Nominal Dimensions (mm)							
	Effective	Geometic		Ødb	ØDb	Ødt	ØDt	h	H	D1	D2
DP 30x100	11.1	7.4	89	32	63	39	58	90	100	23	25
DP 40x100	13.8	9.2	147	44	78	50	72	85	95	30	32
DP 40x125	14.52	9.68	195	43	78	50	72	115	125	30	32
DP 50x93	15.3	10.2	194	53	80	57.5	75	81	93	40	42
DP 50x125	17.175	11.45	291	54	87	61	83	112	128	40	42
DP 50x150	18	12	371	54	90	62	84	138	150	37	40
DP 60x150	20.475	13.65	501	64	100	72	94	138	120	47	50
DP 60x200	22.35	14.9	732	65	109	77	101	185	200	47	50
DP 70x175	23.685	15.79	779	75	114	83	107	161	175	54	56
DP 80x200	27.075	18.05	1163	84	139	95	120	185	200	58	62
DP 90x200	29.55	19.7	1452	94	139	106	132	185	200	68	72



Product Name: FORPOUR IN-PT
Product Description: Direct Pour Filter Sleeve-Parallel Taper

Sleeve Size	Modulus (mm)		Volume (cc)	Nominal Dimensions (mm)							
	Effective	Geometic		Ødb	ØDb	Ødt	ØDt	h	H	D1	D2
DP 40x125	15.624	10.08	216	42	60	58	76	110	120	30	32
DP 50x150	19.685	12.7	420	52.2	72	72	92	138	150	37	40
DP 60x150	22.32	14.4	573	63	85	83	105	137	150	45	49
DP 70x175	25.575	16.5	859	72.5	95	95	119	156	170	54	58

HD SLEEVES from FaprosidSrl, Italy

Exclusive distributorship of HD sleeve from FaprosidSrl for proving solution for making precision castings and for achieving high yield of molten metal.
available modulus range from 0.58cm to 4.2cm or metal volume range from16cc to 770cc.
SLEEVES EX030 L - Specially used for spheroidal graphite cast iron and steel castings.
SLEEVES EX030 MT - Specially used for High Pressure Molding lines.
BREAKER CORES & COVERS

FOREX 200 ANG

ANG SLEEVES are specially designed sleeves having a MEF range of 1.4. The angled configuration allows convenient positioning of the feeder as required by the casting design, while providing effective thermal performance and feeding performance. These sleeves are available in different diameters, heights and angles to suit various casting applications.

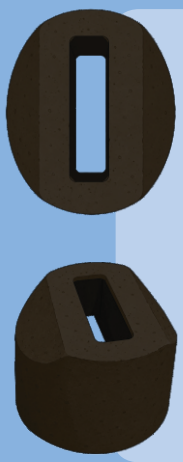


Product Name: ANG SLEEVE
Product Description: FOREX 200 ANG

Sleeve Size	Modulus (mm)		Volume (cc)	Nominal Dimensions (mm)											
	Effective	Geometic		ØDT	ØDt	DB(ref)	IR	B Upper Short	B Upper Long	h1	h2	H	N	N1	T(ref)
ANG 200 ND	59.6	38.7	9170	249.5	214	239.5	100	58	101	213	240	333	118.5	127	12
ANG 250 ND	67.8	45.2	13807	307	267	301	127	52.5-52.8	74.2-74.5	184	244	328	160	162	22.1

FOREX 800 SLOTTED ND

SLOTTED SLEEVES are specially designed sleeves having a MEF range of 1.8.
The slotted design provides flexibility in positioning the sleeve around the feeder area and ensures efficient feeding performance. These sleeves are available in various diameters and heights to suit different casting requirements.



Product Name: SLOTTED SLEEVE
Product Description: FOREX 800 SLOTTED ND

Sleeve Size	Modulus (mm)		Nominal Dimensions (mm)									
	Effective	Geometic	Volume (cc)	ØDT	Ødt	ØDb	W	A' (ANGLE)	S	N	T	H
ND 3 SL	19.9	11.4	267	109	72	99	61	55	58.6	20	4.5	90
ND 4 SL	27.4	16.1	713	137	100	124.5	87	45	68.5	24	4.9	114.5
ND 5 SL	33.9	20.0	1354	163	127.1	146	109	45	76	27.5	5	135.5

FOREX 800 PLAIN BLIND

PLAIN BLIND SLEEVES are sleeves designed having a MEF range of 1.8. The blind design provides effective performance and promotes directional solidification, helping to maximize feeding efficiency and reduce shrinkage-related defects.

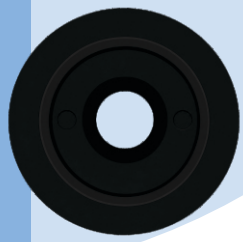


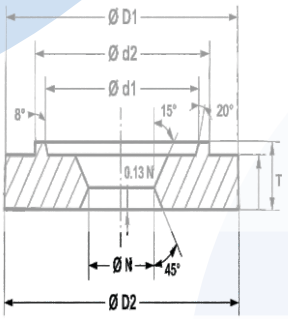
Product Name: PLAIN BLIND SLEEVE
Product Description: FOREX 800 PLAIN BLIND

Sleeve Size	Modulus (mm)		Nominal Dimensions (mm)								
	Effective	Geometic	Volume (cc)	Ødb	ØDb	Ødt	ØDt	h	H	ØD1	ØD2
50 X 50 (BLIND) With Vent Hole in Center	13.46	8.41	101	51.5	69	49	67.5	52	61.5	10	9.5
50 X80 (BLIND) With Vent Hole in Center	14.75	9.22	138	51.5	69.5	48	67.5	71.5	80	11	10
3" X5" (BLIND) With Vent Hole in Center	23.62	14.76	584	79	102	76	99	124	141	22	20
3" X6" (BLIND) With Vent Hole in Center	24.56	15.35	697	79	102	76	98.5	148	160	22	20
4" X6" (BLIND) With Vent Hole in Center	29.12	18.79	1179	102	125	99.5	123	148	160	21	20

BREAKER CORE

Breaker Core is a specially designed foundry consumable used for efficient and controlled breaking of sand cores during the shakeout process. It helps facilitate easy core removal, reduces manual intervention, and minimizes the risk of casting damage.





Breaker Core pattern dimension

Size	D1	D2	d1	d2	d3	T	t	N
40X70	65	66	32.5	40	-	11	8	21
80X110	107	105.5	69.5	79	-	12.3	9.5	31
70X100	97	97.3	58	68	-	12.3	9.5	28
75x100	95.6	39.25	29.92	-	-	7.34	5.04	30.1
100x150	120.05	51.03	40.12	-	-	10.10	6.48	39.96

FORPAD CERAMIC

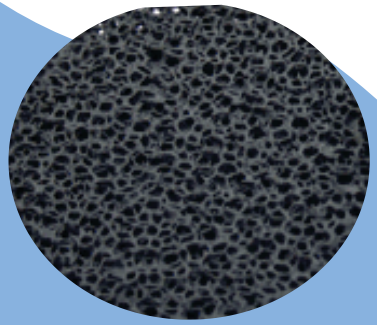
FORPAD is a high-performance pad specially designed for foundry applications to reduce heat loss and maintain molten metal temperature in risers and feeders.
It promotes controlled solidification and improves feeding efficiency, helping to minimize \shrinkage defects and enhance overall casting yield.



Product	Length (mm)	Width (mm)	Height / Thickness (mm)
FORPAD – 225 × 225 × 20 mm	225	225	20
FORPAD – 300 × 300 × 20 mm	300	300	20
FORPAD – 300 × 300 × 40 mm	300	300	40

SiC CERAMIC F-FILTER

SiC Ceramic F-Filter is a high-strength ceramic foam filter made from Silicon Carbide (SiC), specially designed for efficient filtration of molten metal. It effectively captures slag, oxides, and other non-metallic inclusions while providing smooth and controlled metal flow.
This helps improve casting cleanliness, surface finish, and overall casting quality



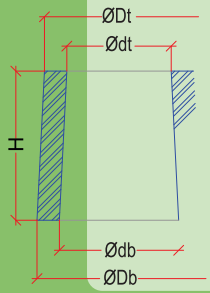
Filter Type	Diameter (mm)	Thickness (mm)	Pore Density
SiC Ceramic F-Filter – 40 × 22 mm	40	22	10 PPI
SiC Ceramic F-Filter – 50 × 22 mm	50	22	10 PPI
SiC Ceramic F-Filter – 60 × 22 mm	60	22	10 PPI
SiC Ceramic F-Filter – 70 × 22 mm	70	22	10 PPI
SiC Ceramic F-Filter – 90 × 22 mm	90	22	10 PP

FOREX 400

FOREX 400 Customized M size are a range of exothermic feeder sleeves used to feed all types of iron and steel castings having MEF range 1.5-1.6.
These feeder sleeved are available in OPEN, BLIND, NECK DOWN Shapes in diameters from 25mm to 150mm.

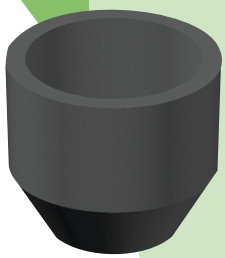
Product Name: FOREX 400
Product Description: Exothermic Open Sleeve Size Upto 6”

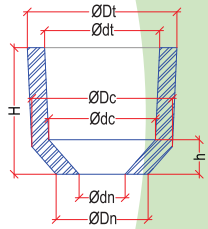




Sleeve Size	Modulus (mm)			Nominal Dimensions (mm)				
	Effective	Geometic	Volume (cc)	Ødb	ØDb	Ødt	ØDt	H
50 X 75 (O)(M)	15.81	9.88	168	54.11	75.57	52.44	74.1	75.7
50x100 (O)M	16.69	10.43	219	53.8	75.4	51.5	74	101
65 X 100 (O)(M)	19.62	12.26	335	66	90	64	87.8	100
80 X 100 (O) (M)	22.61	14.13	487	82.5	107	75	100.5	100
80 X 150 (O) (M)	24.06	15.66	738	80.5	109	78	105.5	150
100 X 150 (O)(L)	29.62	18.99	1216	104	136	100	131	149
120 X 150 (O) (M)	32.28	21.10	1628	118.5	149	116	147	151
130 X 150 (O)(M)	34.60	22.47	1942	130	163	126	159	151
150 X 150 (O)(L)	39.94	25.60	2847	152.6	187.6	146	177.6	149
150 X 150 (O)(M)	38.8	24.87	2610	157	194	153	193	151

Product Name: STD L SIZES (Neck Down Sleeve)
Product Description: Customize ND Sleeve





Sleeve Type dimension	Modulus (mm)			Nominal Dimensions (mm)						
	Effective	Geometic	Volume (cc)	ØDt	Ødt	ØDc	Ødc	ØDn	H	h
ND 200X200 STD (L)	58.9	38	6104	255	206.1	255.5	200	208	199	45
ND 225X200 STD (L)	61.5	41	7611	281.5	231.5	275.5	225	226	198	50
ND 250X200 STD (L)	66.0	44	9285	311.5	255.5	302.5	249	252	199	52.8
ND 275X200 STD (L)	69.0	46	10916	336	280	330	275	265	198	67
ND 300X200 STD (L)	74.0	50	12972	362	302	358	300	293	198	67

Safety, Health and Environment





With strong principles of social commitment embedded within the company, all measures are taken to ensure perfect harmony with the delicate ecology surrounding the plant. As a part of its responsibility, the company has maintained 10,000 green trees surrounding the plant premises. Proper precautions are taken to ensure that there is no adverse impact on natural resources. Adequate standards are followed in handling solvents and hazardous chemicals.

Forace is a zero-discharge company powered by a state-of-the-art 1.5 MW solar facility, underscoring our dedication to environmental sustainability.



In addition, **Forace is certified with IATF 16949**, I**SO 45001:2018,14001:2015 and 9001:2015** demonstrating our robust quality management system and commitment to delivering the highest standards of excellence in our operations.



Our technology development team continuously upgrades product formulations with a view to minimise free monomers, BTX solvents, so as to control deterioration of environment at workplace.



FORACE

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& ISO 45001:2018