

# Catalogue



A full range of products and equipment who are made to answer the day to day needs of foundries

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# Foundry fluxes

Aluminium Martigny, the  
only french manufacturer  
of foundry fluxes

# Foundry fluxes

For aluminium and its alloys

Actions - Actions Wirkung	Produits - Products Produkte		Remarques - Remarks Bemerkungen			
Ecrémage Slagging-off Abkrätzen	ECREMAL	N10	Très exothermique - Highly exothermic Hoch exotherm	•	•	
		N27	Exothermique peu de fumée - Exothermic and low fume - Exotherm, wenig Dunst	•	•	
		N35	Ecologique - Environmentally friendly Umweltfreundlich	•	•	
		N44	Ecologique, exothermique - Environmentally friendly, exothermic - Umweltfreundlich, Exotherm	•	•	
		K1	Sans sodium - Na free - Ohne Na	•	•	
		K30VIM	Très exothermique sans Na - Highly exothermic Na free - Ohne Na, stark exotherm	•	•	
Désoxydation Deoxidising Desoxidation	ELIMOXAL	NF30	Lavage et désoxydation - Cleaning and deoxidising Reinigung und desoxidation	•	•	
		NF42	Lavage et désoxydation four grande capacité Cleaning and deoxidising large capacity furnace Reinigung und desoxidation ofen große kapazität	•	•	
		NF60	Ecologique - Environmentally friendly Umweltfreundlich - T°≥720°C	•	•	
		NF70 NF80	Ecologique - Environmentally friendly Umweltfreundlich - T°<700°C	•	•	
		KF20 GF	Ecologique sans Na/Ca - Environmentally friendly Na/Ca free - Ohne Na/Ca umweltfreundlich - T°≥720°C	•	•	
		KF28 GF	Ecologique sans Na/Ca - Environmentally friendly Na/Ca free - Ohne Na/Ca Umweltfreundlich - T°≥680°C	•	•	
		KF30 GF	Ecologique sans Na/Ca - Environmentally friendly Na/Ca free - Ohne Na/Ca Umweltfreundlich - T°≥670°C	•	•	
Dégazage & désoxydation Degassing & deoxidising Entgasung & desoxidation	DESYDRAL	N70P	Azote - Nitrogen - Stickstoff			•
		N71P	Azote sans Na - Nitrogen Na free - Stickstoff ohne Na			•
Affinage & désoxydation Refining & deoxidising Kornfeinung & desoxidation	AFFIGRAL	G10	Affinage standard TIB2 - Refining standard TIB2 Kornfeinung standard TIB2	•	•	•
		G11	Affinage intermédiaire TIB2 - Medium refining TIB2 Kornfeinung mitte TIB2	•	•	•
Modification Modification Veredelung	NATRAL	MT728	700°C < T° < 760°C	•	•	
		MT760S	760°C < T° < 800°C	•	•	
		P800	700°C < T° < 750°C			•
Maintien de modification Holding modification Erhaltung der veredelung	NATRAL	PM72K	1h30 to 2h / sup 725°C			•
		PM74	30' to 1h / sup 690°C			•
Action spéciale Special action Spezielle wirkung	CALEXAL	5	Élimination Ca - Ca elimination Entfernung von Ca	•		
	DEMAG	20	Élimination Mg - Mg elimination Entfernung von Mg	•		
	SODEXAL	6 - 7	Élimination Na, Ca et Li - Na, Ca & Li elimination Entfernung von Na, Ca und Li	•		
	ECREMAL	N27	Nettoyage four - Furnace cleaning Ofenreinigung	•		
	ECREMAL	KSR1	Nettoyage four sans Na - Furnace cleaning Na free Ofenreinigung Ohne Na	•		

# Foundry fluxes



## Rotor injection fluxes for aluminium and its alloys

<i>Actions - Actions Wirkung</i>	<i>Produits - Products Produkte</i>		<i>Remarques - Remarks Bemerkungen</i>			
Désoxydation Deoxidising - Desoxidation	ELIMOXAL	KF25 ING.	Standard. Sans Na/ Ca - Standard. Na/ Ca free Standard ohne Na/Ca		•	
Affinage & désoxydation Refining & deoxidising Kornfeinung & desoxidation	AFFIGRAL	G20 ING.	Affinage standard TiB2 - Refining standard TiB2 Kornfeinung standard TiB2		•	
		G54 ING.	Haut pouvoir affinant TiB2- Highly refining TiB2 Starke Kornfeinung TiB2		•	

## Fluxes for magnesium and its alloys

Couverture & désoxydation Covering & deoxidising Abdeckung und desoxidation	DESOMAG	5	Mg et alliages Mg/Al Mg and Mg/Al alloys Mg und Mg/Al legierungen	•		
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## Fluxes for copper and its alloys

Couverture & lavage Covering & cleaning Abdeckung & reinigung	CUPRALUX	N 13	Cu-Al. Cu-Si. Cu-Mn. Cu-Zn-Al	•		
		LP 10	Laitons - Brass - Messing	•		
Dégazage & couverture Degassing & covering Entgasung & abdeckung	CUPRALUX	41	Cuivre - Cuivre étain - Cuivre étain plomb - Cuivre nickel Copper - Tin copper - Tin lead copper - Nickel Copper Kupfer - Zinnkupfer - Zinn blei - Nickel kupfer	•		
Elimination Al Al elimination Entfernung von Al	CUPRALUX	RAL 50	Cuivre - Alliages de cuivre - Bronze Copper - Copper alloys - Bronze Kupfer - Kupferlegierungen - Bronze	•		

## Fluxes for zinc and its alloys

Désoxydation & décaissage Deoxidising & slagging-off Desoxidation & abkrätzen	ZAMALUX	Z 10	Réactivité moyenne / 420 - 450°C Medium reactivity / 420 - 450°C Mittlere reaktivität / 420-450°C	•		
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# Rotoxal

Automatic metallurgical treatment



ROTOXAL RD1



TYPES	OPTIONAL	HANDLING	CAPACITY
<b>ROTOXAL RD1</b> EQ2000049	External or integrated electrical cabinet Turning anti-vortex blade Automatic or manual flux injection	Crane or forklift	Up to 600kg
<b>ROTOXAL EVOLUTION 2</b> EQ2000090	Automatic flux injection Double flux injection Turning anti-vortex blade Double gas injection Temperature measurement in the bath	Integrated trolley or fixed version  Option: rotating unit	Up to 1000 kg

## Accessories



# Heating mattress for Degassing shaft



## CHARACTERISTICS

- Preheating between 20°C to 100°C
- Delivered power from the mattress: 205W/230V (+ - 10%)
- Removable temperature sensor integrated in an inside pocket

## TECHNICAL DESCRIPTION

- Housing: double sided siliconned fiberglass
- Insulating material: 25mm needled glas tablecloth
- Fastenning: straps and stainless loops
- Heating: heating resistance inside the insulating material
- Electronic regulation box, 200°C maximum and PT100 probe
- Load break 10A

REFERENCE: NE30001785

# Control

Oxydation rate gassing  
level

# QualiFlash®

Quality control of the inclusions and oxides rate



## TECHNICAL CHARACTERISTICS

Technology	Regulated filtration system
Application range	Al Si18CuNiMg
	Al Cu5MgTi
	Al Mg3Ti
	Al Si5Cu3Mg - Al Si7Mg unmodified with Na
	Al Si5Cu3Mg - Al Si7Mg modified with Na
	50 à 100 ppm
	Al Si9Cu3
Temperature control of the alloy	Al Si13 unmodified with Na
Pouring system	Other grades on demand
Temperature control of the alloy	Integrated sensor with digital monitoring
Pouring system	Regulated die with digital monitoring
Filtration section	2 filters sections available depending on the solidification range of the controlled alloy
Consumable & accessories	Ceramic filter, coating, thermocouple, calibrated dipper
Power supply	230 V, 50 Hz, 2.5 kW
Weight	115 kg
Size	1083 x 631 x 921 mm

# Hydralvac Premium

Gassing level test under vacuum in aluminium foundries

## TECHNICAL CHARACTERISTICS

Alimentation	230 V/single-phase/50 Hz
Power	120 w
Sound level	48 db
Nominal flow	7m3/hour
Limit pressure	10 mbar
Timer	300 seconds
Return to atmospheric pressure	Automatic
Option	2 vacuum level switch



Machines and accessories

REFERENCES	DESIGNATION
EQ30000012	Hydralvac automatic
EQ30000005	Hydralvac + 2 vacuum levels switch
EQ30000016	Stainless steel crucible Ø48
EQ30000019	Spare glass bell
EQ30000020	Stainless crucible plier 25mm
EQ30000006	Workshop cart on two levels
EQ30000021	190x140x5 gasket
EQ30000022	Bronze muffler
EQ30000024	MV99S Oil 1liter



# SFTA - Thermal Analysis

Measure the solidification properties of your melt before casting



Production device: Go-No go indicators

Melt process improvement

Quality control for new batch ingots

Casting design tool for simulation software



# Coatings and lubricants



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# Coatings



# Coating mixer

Designed to improve the use of the coatings, it guarantees the homogeneity of any products thanks to a continuous mixing. The on and off cycles are fully programmable by a small controller.

## FEATURES

- 1 steel tank of 15, 30 ou 60 liters
- Option: speed controller
- 400V - 50Hz - 3 Phasis

## ADVANTAGES

- Pyramidal tank to ease the filling
- Decrease of the rejection rate thanks to a better homogeneity
- No external contamination of the coating
- Saving with a clean filling of the spraygun
- Low maintenance



# Spraygun for coating



NE30001587

Sraygun 080 America  
4 to 10 bars

500mm

NE30001378

400mm

Available lengths: 250 to 1200mm



NE30001715

600mm

NE30001603

300mm

NE30001565

Sraygun 080 America  
4 à 10 bars

400mm

NE30001698

500mm

Available lengths: 250 to 1200mm



NE30001579

Sraygun 080 America  
4 à 10 bars

1200mm

Available lengths: 250 to 1200mm

# Spraygun for coating



NE30001746

Spraygun with 1l tank

NE30001859

Spraygun Chromolux ½l tank

NE30001876

Spraygun Chromolux 1l tank



NE3000XXXX

Spraygun 055 - gravity ¼l tank

Use between 1 to 3 bars

# Corrosion inhibitors

<i>Produits Products Produkte</i>	<i>Présentation Presentation Aussehen</i>	<i>Base Base Basis</i>	<i>Domaine d'utilisation Use Anwendung</i>	<i>Remarques Remarks Bemerkungen</i>
<b>ANTONOL IN 50/52</b>	Liquide Liquid Flüssigkeit	Aqueux Aqueous Wässrig	Cuivre Copper Kupfer	Protection filage à chaud dans l'eau Protection against oxidation after extrusion into water Schutz beim abschrecken mit wasser
<b>ANTONOL ASCT1</b>	Crème Paste Paste	Aqueuse Aqueous Wässrig	Cuivre fil fin Thin copper wire Dünner kupferdraht	Protection filage en sortie (machines à tréfiler équipées de recuseurs en continu) Protection exiting draw out (wiredrawing machine equipped with continuous annealing kiln) Schutz beim ziehen (drahziehmaschine ausgestattet mit kontinuierlichen glühofen)



# Lubricants

## For extrusion

<i>Produits Products Produkte</i>	<i>Présentation Presentation Aussehen</i>	<i>Domaine d'utilisation Use Anwendung</i>	<i>Remarques Remarks Bemerkungen</i>
<b>ANTONOL FAA4</b>	Bâtonnets solides Solid rods Feste stangen	Lubrification filière Extrusion lubrification von strangguss	Al, alliages aluminium, cuivre, alliages cuivreux Aluminium and its alloys, Copper and its alloys Al, Al Legierungen, Kupfer, Kupferlegierungen
<b>ANTONOL FAAS</b>	Bâtonnets solides Solid rods Feste stangen	Lubrification filière Extrusion lubrification von strangguss	Al, alliages aluminium, cuivre, alliages cuivreux alliages plus durs et filage difficile Aluminium and its alloys, Copper and its alloys, difficult alloys to extrude Al, Al legierungen, kupfer, kupferlegierungen, härtere legierungen und schwere entformung

## For semi continuous casting lubricants

<b>CASTILUBE C</b>	Huile semi fluide Semi fluid oil Semi flüssigkeit öl	Lubrification moules plaques et billettes Lubrication mould slabs and billets Schmierung form platten und knüppel	Aluminium et ses alliages Aluminium and its alloys Aluminium und aluminiumlegierungen
<b>CASTILUBE HTG 20/21</b>	Graisse Grease Schmierfett	Lubrification moules plaques et billettes Lubrication mould slabs and billets Schmierung form platten und knüppel	Aluminium et ses alliages Aluminium and its alloys Aluminium und aluminiumlegierungen
<b>CASTILUBE HTG 24</b>	Graisse Grease Schmierfett	Lubrification moules plaques et billettes Lubrication mould slabs and billets Schmierung form platten und knüppel	Alliages d'aluminium chargés en Mg For aluminium alloys with Mg Aluminiumlegierungen mit Mg

# Graphite stick

Extrusion dry lubricant for billets

TECHNICAL CHARACTERISTICS			DIAMETER	LENGTH
ANTONOL FAA4	Aluminium, copper alloys		30 à 70mm	300mm
ANTONOL FAA5	Aluminium, copper alloys	Hard alloys		

## ADVANTAGES

- Grip on hot surfaces (above 150° C)
- Avoid the welding problem on the shear blade and on the dummy blocks
- Easy application
- Improved lubrication
- Avoid cracks and tearing defects
- Ready to use



# Dispenser 2000

Dosing of graphite lubricant  
Castilube G12 for High  
pressure die casting

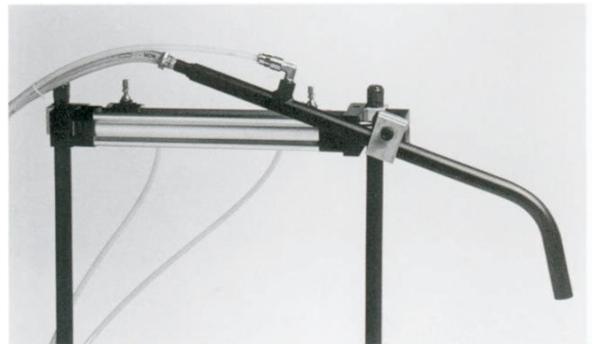
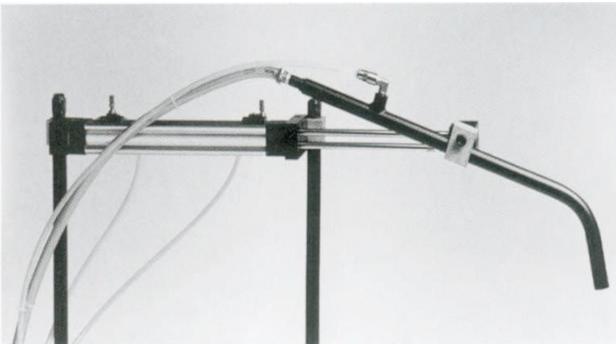
## CASTILUBE G12

2 diameters available:

Ø 0,5mm

Ø 1mm

Reference: NE30001563



# Accessories

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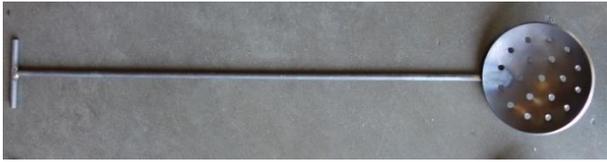
# Furnace cover - Calsi K

KIND OF CRUCIBLE	KIND OF COVER	AMF REFERENCE	DIAMETER ext. mm	THICKNESS mm
BNS150 to BNS204 BX166 to BX178	Without nick	NE30001733	600	50
	With nick	NE30001734		
BNS210 to BNS360 BX202 to BX502	Without nick	NE30001745	680	
	With nick	NE30001717		
BNS400 to BNS600 BX1264 to BX847	Without nick	NE30001722	900	
	With nick	NE30001718		
BNS800 to BNS1500 BX850 to BX2100	Without nick	NE30001750	1100	
	With nick	NE30001749		

The radiating energy loss of a furnace without cover is around 20kWh/Sqm



# Skimmers



REFERENCE	DIAMETER mm	HEIGHT mm	HOLES	THICKNESS	LENGHT ARM
NE60000017	120	25	10	Thickness 5mm	1000mm
NE60000034	140	30	13		
NE60000048	160	35		19	
NE60000008	180	35			
NE60000009	200	40			
NE60000010	220	45			
NE60000014	250	50			
NE60000015	300	55			

## RELATED PRODUCTS

Our range of coatings such as ISALU A/LS/P/SC can protect your tools before use, in order to increase lifetime and to reduce iron spreading in the metal bath.

## Treatment bell



REFERENCE	DESIGNATION
NE60000037	Hemispheric bell

## Cleaning tool for crucible



REFERENCES	DESIGNATION
NE30001889	Cleaning tool for crucible
NE30000942	Shaped cleaning tool for crucible

# Ingot casting table

- Strong welded structure
- Manual extraction of the ingots, easy release
- Pitched metal sheet to slide the ingots in front of the table
- Forklift handling



## TECHNICAL CHARACTERISTICS

Size	1110x2250x1000 mm
Weight	630kg
Quantity	6 cast iron mold ENGJS 400/15
Ingot mold capacity	18kg aluminium - 6,6dm <sup>3</sup>
Reference	EQ60000079



# Ingot Mold

## TECHNICAL CHARACTERISTICS

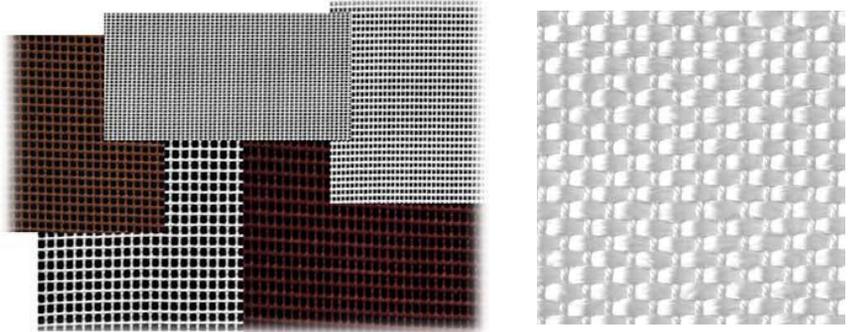
Size	700x250x150
Capacity	18kg
Reference	EQ60000080

# Filtration

To improve the quality of  
cast aluminium

# Filtration

Fiberglass filters or combo bags



REFERENCE	WIDTH (mm)	FINISH	CLOTH DIMENSION (mm)
NE30001451	1100	Degassed	1,50 x 1,50
NE30001478		Non degassed	
NE3000XXXX	1080	Degassed	1,96 x 1,78
NE3000XXXX		Non degassed	
NE3000XXXX		Non degassed	
NE30000264	1250	Degassed	2,42 x 2,56
NE30001794	1080	Degassed	3,13 x 3,29
NE30000237		Non degassed	

# Master alloys

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## AG 10 and 20

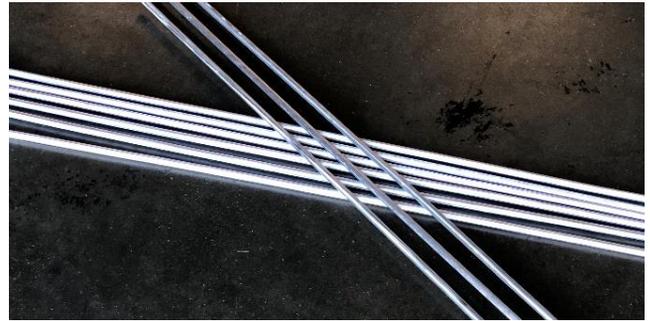
Correction of the magnesium content in the aluminium alloys liquid baths



Reference: NE10000819

## AT5B1

Refining of the aluminium alloys



Reference: NE40000433

## AlSr5 and 10

Strontium modification of aluminium-silicon alloys



Reference: NE40000434

For other alloys don't hesitate to contact  
US.

# Temperature measurement



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# Thermocouples K or J type

REFERENCES	DESIGNATION
NE30000292	Ø1mm + wire + connector
NE3000 depending on lenght	Ø3mm + naked wires
NE3000 depending on lenght	Ø3mm with connector
NE3000 depending on lenght	Ø6mm with connector

The Ø3mm thermocouple are available in various lenghts from 100 to 3000mm (50mm count) with or without K or J connector.

## Thermocouples TYPE K or J

Ø6mm L=1000 + connector TK male NE30001836



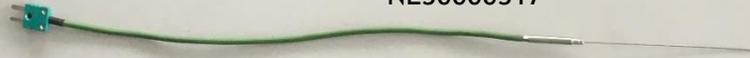
Ø3mm L=950mm NE30001370



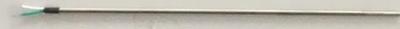
Ø3mm L=950mm NE30000316



Ø1mm L=150mm+ compensation cable L=440mm+mini male connector  
NE30000317

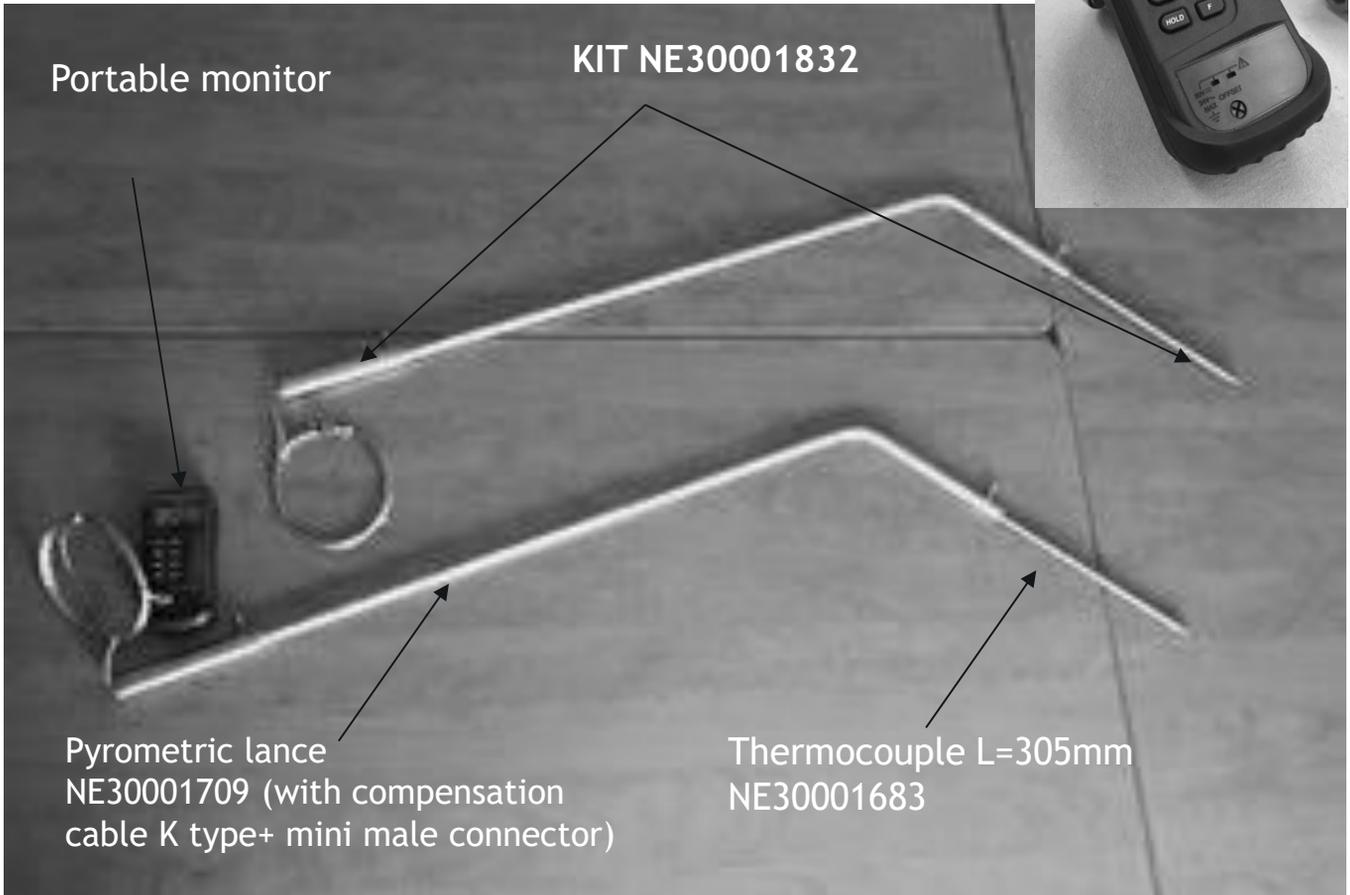


Ø3mm L=200mm NE30001384



# Pyrometer

Portable pyrometric measurement



REFERENCE	DESIGNATION
NE30001739	Monitor
NE30001832	Pyrometric lance with 305mm thermocouple included.
NE30001860	Pyrometric lance with 510 mm thermocouple included
NE30001683	Spare 305mm thermocouple
NE30001861	Spare 510 mm thermocouple

# Individual safety equipment



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# Safety equipment for foundry

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# Contact

All our team stay  
available for you, to  
guide and advise.