

KANTHAL®

Part of Sandvik Group

YOUR FURNACE ROLLER ONE-STOP-SHOP

KANTHAL® FURNACE ROLLERS





Kanthal specialize in the design and manufacture of high performance rollers for furnaces. We are a global competence center for roller technology and a one-stop-shop for all your furnace roller needs.

For more than a decade, we have been producing top quality, high performance furnace rollers for manufacturers and users of industrial furnaces.

Today, our advanced technology focuses on the use of iron-chromium-aluminium alloys known as Kanthal APMT™, a superior material that has many important advantages in the critical 'hot zones' of a furnace. This alloy range is complemented by cool zone rollers in NiCr that are second to none.

EFFICIENCY IN THE HOT ZONE

Kanthal APMT™ alloys typically outperform any other types of furnace alloys. For example, they enable our rollers to operate at higher temperatures and last longer than conventional furnace rollers. Kanthal APMT™ rollers are designed to stay straight at operating temperatures up to 1250°C (2280°F), with no bending or elongation.

In addition, Kanthal APMT™ rollers are highly resistant to oxidation, corrosion and thermal shock. Their smooth surface ensures no defects in the materials being transported by the rollers. This makes them perfect for use in oxidizing, carburizing, sulfurizing and inert or controlled atmospheres. Kanthal APMT™ rollers do not require water cooling for applications up to 1250°C (2280°F) providing customers significant cost and energy savings.



We offer furnace rollers in different alloys that suits both the hot and cool zones of your furnace.

	KANTHAL APMT™	GX40CrNiSi25-12	GX40CrNiSi25-20	GX40NiCrSiNb35-26	GX42NiCrSiNbTi35-25	GX48NiCrWSi48-28-5
W.Nr.	–	1.4837	1.4848	1.4852	1.4852 mod.	2.4879
Cr (%)	21	25	25	25	25	28
Ni (%)	–	12	20	35	35	48
Al (%)	5	–	–	–	–	–
Mo (%)	3	–	–	–	–	–
C (%)	0,08	0,4	0,4	0,4	0,4	0,5
Si (%)	0,7	2,0	1,5	1,5	1,5	1,5
Mn (%)	0,4	1,5	1,5	1,5	1	1,5
Nb (%)	–	–	–	1,5	1,5	–
Fe	balance	balance	balance	balance	balance +Ti	balance

Table 1. Alloys. Other alloys are also available on request. Typical composition which may be slightly modified.

COMPLETE RANGE

Large industrial furnaces require rollers with different characteristics to match hot and cool zones. Our sophisticated Kanthal APMT™ rollers ensure the best performance in critical 'hot zones'. But that's not all – we also supply high quality nickel chromium (NiCr) rollers. (Table 1)

Our NiCr rollers, produced in close cooperation with our manufacturing partners, are ideally suited for lower temperature zones. They are highly efficient and cost-effective to run and maintain. And just like our Kanthal APMT™ rollers, they are resistant to oxidation and corrosion guaranteeing a long service life and maximum uptime.

In short, we offer the best turn-key solution in the market. Whatever type of furnace you are operating, we can supply the rollers you need.

A GLOBAL SUPPLIER

Our know-how about furnace rollers has enabled the company to become a leading, global supplier of this technology. Using this strong platform as a base, the company has developed an extensive portfolio of other top quality related products.

In addition to Kanthal APMT™ rollers and centrifugally cast NiCr rollers for lower temperature applications, we offer innovative high temperature materials for the manufacture of non-heating rollers.

If a custom size roller is required please send us your request and our specialists will contact you.

SUMMING IT UP

We are your best choice for furnace rollers and heating products. Not simply because of our extensive knowledge and top quality product range, but because substantial savings can be achieved by acquiring all the rollers you need from one dedicated supplier.

Whatever your needs, we always strive to give you the very best, cost effective solution.

KANTHAL® – PART OF SANDVIK GROUP

As part of the Sandvik Group, Kanthal represents world class expertise in heating technology products and solutions. The Sandvik Group is a global high technology enterprise with 43,000 employees in 130 countries. Sandvik's operations are concentrated on three core businesses: Sandvik Machining Solutions, Sandvik Mining and Rock Technology and Sandvik Materials Technology.

The Kanthal brand is part of Sandvik Materials Technology, a world-leading manufacturer of advanced stainless steels and special alloys for the most demanding industries, metal powder as well as products and services for industrial heating.

Environmental awareness, health and safety are integral parts of our business and are at the forefront of all activities within our operations. We are certified in ISO 9001, ISO 14001 and OHSAS 18001.