

SONDERWERKSTOFFE

Empar



YOUR RELIABLE PARTNER FOR NICKEL AND TITANIUM BASED ALLOYS AND SPECIAL STEEL

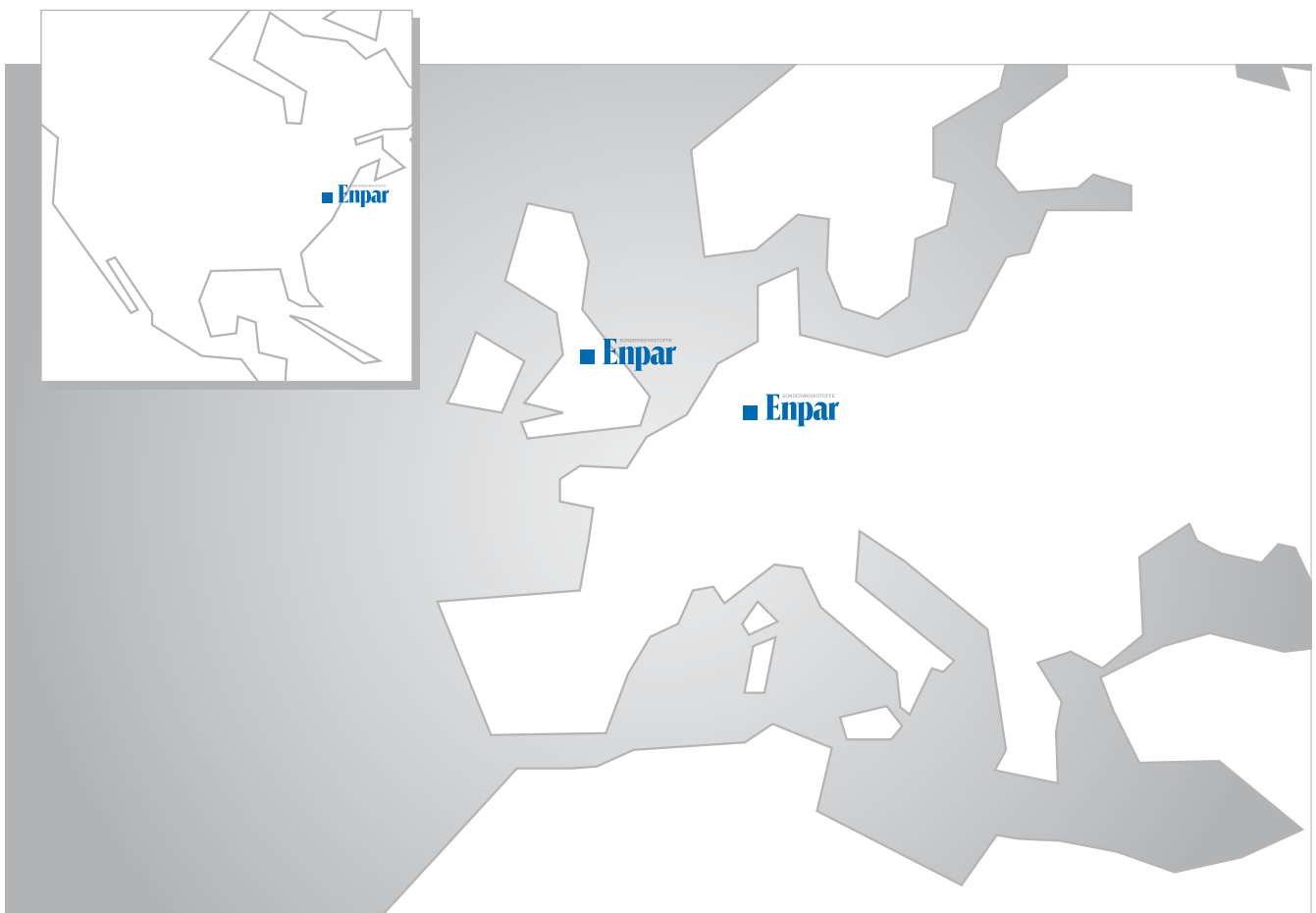
Enpar Sonderwerkstoffe GmbH is a reliable and established partner in the European market for specialized metal processing. With core competences in metal processing and stockholding Enpar Sonderwerkstoffe acts as material manager for nickel and titanium alloys and also specific kinds of steel and alloys with particular technological properties.

The product spectrum consists of semi-finished metal products for companies to process further: flat, square, round and hexagonal bar, forging billet, forged pieces (rings, discs, shafts, etc.), sheet, plate as well as tube and fittings. Since 2003, water-jet cut pieces according to drawing complete our product range.

Through co-operation with several partners in the business of machining and processing metals together with our own material stockholding, Enpar Sonderwerkstoffe GmbH is in a position to react promptly and with flexibility to customer requirements and to offer competent solutions.

Positive and expanding development, backed by goal-oriented investments, supports many complex projects achieving full customer satisfaction. Supported by Bohler-Uddeholm AG, the majority shareholder since 2001 and with contacts to international resource markets, our long term perspectives are secure.

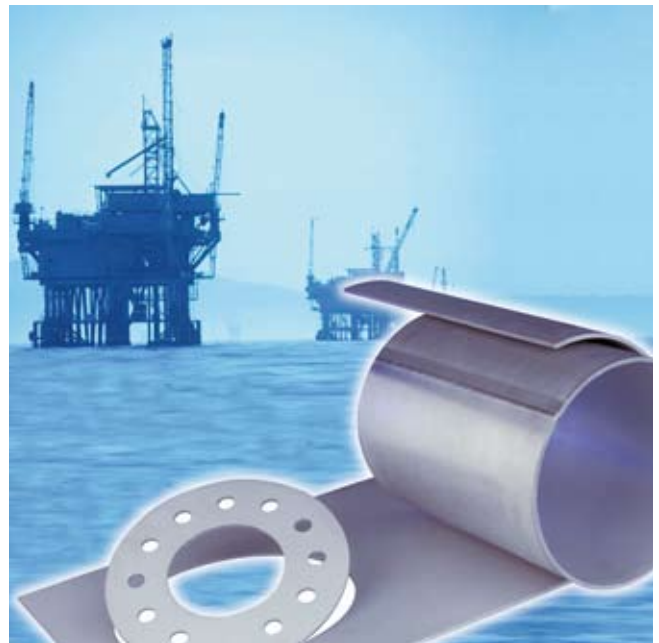
The team at Enpar Sonderwerkstoffe will be pleased to be your reliable contact and be at your disposal offering the experience and knowledge which has been gained over many years.



YOUR RELIABLE PARTNER FOR NICKEL AND TITANIUM BASED ALLOYS AND SPECIAL STEEL

DELIVERY FORMS:

- Billet
- Bar material
- Forgings
- Sheet
- Plate
- Seamless and longitudinal welded tubes
- Flanges and fittings
- Parts according to drawing (also fully machined)
- Water jet cut parts



APPLICATION RANGES:

- Chemical industry
- Oil and offshore
- Power generation
- Aerospace
- General engineering
- Automotive



CERTIFICATES:

- TÜV Cert ISO 9001:2008
- TÜV Cert PED 97/23/EC
- TÜV Cert DIN EN 10088 Z-30.3-6
- EN 9100 P2 AECMA EASE
- Rolls-Royce Approval



YOUR RELIABLE PARTNER FOR NICKEL AND TITANIUM BASED ALLOYS AND SPECIAL STEEL



Material No.	Tradename	Density
SPECIALITY STEEL, IRON BASED		
1.3912	Alloy 36	8,20
1.3917	Alloy 42	8,20
1.3964	Ni 50	7,90
1.3981	Alloy K	8,30
1.4314	Alloy 304	7,90
1.4324	Alloy 301	7,90
1.4361	Alloy 1815	7,85
1.4410	Alloy 2507	7,85
1.4462	Alloy 2205	7,80
1.4465	Alloy 25252	7,96
1.4466	Alloy 25252	7,96
1.4501	Alloy Z100	7,85
1.4507	Alloy F255	7,85
1.4529	Alloy 1925	8,30
1.4534	PH 13-8 Mo	7,80
1.4539	Alloy 904 L	8,05
1.4542	17-4 PH	7,80
1.4544	Alloy 321	7,90
1.4545	15-5 PH	7,80
1.4546	Alloy 347	7,90
1.4548	17-4 PH	7,90
1.4549	G-17-4 PH	7,90
1.4558	800LC	8,10
1.4562	Alloy 31	8,10
1.4563	Alloy 28	8,10
1.4564	17-7 PH	7,80
1.4568	17-7 PH	7,80
1.4574	PH 15-7 Mo	7,80
1.4828	Alloy 309	7,90
1.4841	Alloy 310	7,90
1.4845	Alloy 310S	7,90
1.4864	Alloy DS	8,00
1.4876	Alloy 800	8,00
1.4939	Jethete	7,80
1.4943	A-286	7,95
1.4944	A-286	7,95
1.4958	800H	8,10
1.4959	800HT	8,10
1.4971	N-155	8,25
1.4974	N-155	8,25
1.4980	A-286	7,95
1.6354	MA 300	8,05
1.6355	MA 350	8,02
1.6356	MA 350	8,02
1.6604	30NCD16	7,85
1.6944	4340	7,85
1.7734	15CDV6	7,85
1.7736	E-15CDV6	7,85
K44200	Alloy 300M	7,80
S45000	Alloy 450	7,80
S45500	Alloy 455	7,80

YOUR RELIABLE PARTNER FOR NICKEL AND TITANIUM BASED ALLOYS AND SPECIAL STEEL

Material No.	Tradename	Density
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NICKEL BASED ALLOYS		
2.4060	Nickel 205	8,89
2.4061	Nickel 205	8,89
2.4066	Nickel 200	8,89
2.4068	Nickel 201	8,89
2.4360	Alloy 400	8,83
2.4375	Alloy K-500	8,46
2.4602	Alloy C 22	8,69
2.4605	Alloy 59	8,80
2.4606	Alloy 686	8,73
2.4608	Alloy 333	8,56
2.4610	Alloy C 4	8,64
2.4617	Alloy B-2	9,22
2.4619	Alloy G-3	8,30
2.4630	Alloy 75	8,40
2.4631	Alloy 80A	8,20
2.4632	Alloy 90	8,20
2.4633	Alloy 602	7,90
2.4634	Alloy 105	8,00
2.4636	Alloy 115	8,00
2.4642	Alloy 690	8,14
2.4646	Alloy 214	8,05
2.4650	Alloy C-263	8,36
2.4654	Waspaloy	8,25
2.4660	Alloy 20CB3	8,10
2.4662	Alloy 901	8,15
2.4663	Alloy 617	8,55
2.4665	Alloy X	8,50
2.4668	Alloy 718	8,19
2.4669	Alloy X-750	8,25
2.4670	Alloy 713 LC	8,01
2.4671	Alloy 713	8,01
2.4674	Alloy 100	7,75
2.4876	Alloy M 246	8,50
2.4816	Alloy 600	8,42
2.4819	Alloy C-276	8,89
2.4851	Alloy 601	8,20
2.4856	Alloy 625	8,44
2.4858	Alloy 825	8,18
2.4869	Alloy 80/20	8,30
2.4889	Alloy 45	8,00
2.4951	Alloy 75	8,37
2.4952	Alloy 80A	8,19
2.4969	Alloy 90	8,18
2.4973	Alloy 41	8,20
2.4975	Alloy 901	8,20
2.4976	Alloy NiCr20Mo	8,20
2.4983	Alloy Co500	8,10
N06230	Alloy 230	8,83
N07725	Alloy 725	8,30
N08330	Alloy 330	8,10

Material No.	Tradename	Density
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COBALT ALLOYS		
2.4683	Alloy 188	8,97
2.4778	UMCO 50	8,10
2.4964	Alloy L-605	9,13
2.4967	Alloy L-605	9,13
2.4989	Alloy S-816	8,70
R30006	Alloy No.6	8,60
R30035	Alloy MP35N	8,43
R30556	Alloy 556	8,23
	Kobalt	8,90

COPPER ALLOYS		
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2.0872	CuNi10Fe	8,94
2.0882	CuNi30Fe	8,94
2.1245	CuNiBe	8,40
2.1247	CuBe2	8,30
2.1285	CuCoBe	8,80
2.1964	CuBe	8,30

TITANIUM AND ALLOYS		
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3.7025	Titan Gr.1	4,50
3.7024	Titan Gr.1	4,50
3.7225	Titan Gr.1.1	4,50
3.7035	Titan Gr. 2	4,50
3.7034	Titan Gr. 2	4,50
3.7235	Titan Gr. 7	4,50
3.7055	Titan Gr. 3	4,50
3.7065	Titan Gr. 4	4,50
3.7064	Titan Gr. 4	4,50
3.7114	Ti Al5Sn2	4,50
3.7124	Ti Cu 2	4,56
3.7145	Ti 6-2-4-2	4,50
3.7144	Ti 6-2-4-2	4,50
3.7154	Ti Al6Zr5	4,50
3.7165	Ti Al6V4	4,50
3.7164	Ti Al6V4	4,50
3.7174	Ti Al6V6Sn2	4,57
3.7184	Ti Al4 Mo4Sn2	4,60
3.7194	Ti 5Al-2,5V	4,50

ZIRCONIUM AND ALLOYS		
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R60701	Zr. Gr.701	6,60
R60702	Zr. Gr.702	6,60
R60705	Zr. Gr.705	6,65
R60802	Zircaloy 2	6,51
R60804	Zircaloy 4	6,51

OTHER METALS		
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Magnesium		1,74
Molybdenum		10,20
Niobium		8,58
Tantalum		16,66
Tungsten		19,30

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