

**TÜV-Verband Material Leaflet Supplement**  
**Ferritic-austenitic rolled- and**  
**forged steel**  
**X2CrNiMoN22-5-3; Material-No. 1.4462**

**Manufacturer: strip, plate and sheet, flange, section bar,  
seamless tube, forging**

WB 418 Supplement-eng:2022-07-19

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**English translation of German edition 2022-07-19:**

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This supplement depicts the content of sections 1, 2 and 3 (only appraised measures) of the TÜV-Verband Material Leaflet 418, edition 2022-07-19, and is only valid in connection with this TÜV-Verband Material Leaflet.

**1 Manufacturer/Factory**

<b>Austria</b>	Böhler	Böhler Edelstahl GmbH & Co KG 8605 Kapfenberg
	SBS	Schoeller-Bleckmann Edelstahlrohr GmbH 2630 Ternitz
<b>Belgium</b>	APERAM	APERAM Genk Swinnenwijerweg 5 3600 Genk
	HS	Hertecant Flanges NV 2260 Heultje-Westerlo
	UIB	Usinor Industeel Belgien 6000 Charleroi
<b>Czech Republic</b>	SCPT	SANDVIK CHOMUTOV Precision Tubes s.r.o. 430 01 Chomutov
<b>Finland</b>	Outo-Tornio	Outokumpu Stainless Oy Tornio Works 95401 Tornio
<b>France</b>	CLI	ArcelorMittal Industeel France Site du Creusot 56, rue Clémenceau 71201 Le Creusot Cedex
	m-gi	SBS 42130 Boën-sur-Signon
	MST-F	Salzgitter Mannesmann Stainless Tubes Werk Montbard 21501 Montbard
	Ugine	Ugine S.A. Werk Isbergues 62330 Isbergues
	US	Ugine Savoie Werk Ugine 73403 Ugine Cedex
<b>Germany</b>	Bebitz	Bebitz GmbH Flanschenwerk 06420 Bebitz
	BGH	BGH Edelstahl Siegen GmbH 57076 Siegen

<b>Germany</b>	Brück	Brück GmbH 66131 Ensheim
	CHS	Chr. Höver & Sohn GmbH & Co. Edelstahlwerk 51789 Lindlar-Oberleppe
	DEW-S	Deutsche Edelstahlwerke GmbH Werk Siegen 58452 Witten
	DEW-WK	Deutsche Edelstahlwerke GmbH Werke Witten und Krefeld 58452 Witten
	DIRO	Karl Diederichs GmbH & Co. KG Luckhauser Straße 1-5 42899 Remscheid
	ERW	Edelstahl Rosswag GmbH 76327 Pfinztal/Kleinsteinbach
	GG	Gustav Grimm GmbH Edelstahlwerk 42855 Remscheid-Haddenbach
	H	Albert Hoffmann KG Stahlgießerei 52249 Eschweiler
	HJE	Hammerschmiede Jäckel Essen GmbH 45357 Essen
	HWE	Hammerwerk Erft G. Diederichs GmbH & Co. KG Ernst-Diederichs-Straße 1 53902 Bad Münstereifel - Arloff
	KIND&CO	KIND&CO., Edelstahlwerk, Kommanditgesellschaft Standort Kaiserau 51784 Lindlar
	Kollmeder	Schmiede- und Presswerk GmbH & Co. KG 84030 Ergolding
	Maass	Wilhelm Maass GmbH Zeche Ernestine 18 D-45141 Essen
	MST-D	Salzgitter Mannesmann Stainless Tubes Deutschland GmbH 42859 Remscheid
	NM	Richard Neumayer Ges. für Umformtechnik mbH 77756 Hausach
	OTK-NR	Outokumpu Nirosta GmbH Werk Dillenburg, Düsseldorf-Benrath, Krefeld, Dah- lerbrück 47807 Krefeld
	S + C	Schmidt + Clemens GmbH & Co. Edelstahlwerk Kaiserau 51779 Lindlar

<b>Germany</b>	TPS	TPS Technitube Röhrenwerke GmbH 54550 Daun
	WAF	Ewald-Waffenschmidt GmbH & Co. KG 57482 Wenden
<b>Great Britain</b>	AS	Avesta Polarit Ltd. S91TR Sheffield
	SES	Stockbridge Engineering Steels Stockbridge Sheffield
	Sterling	Sterling Tubes Ltd. WS2 7BW Walsall
<b>India</b>	Ambica	Ambica Steels Limited Plot No.-32, Site-II, Loni Road Industrial Area, Mohan Nagar, 201007 Ghaziabad, Uttar Pradesh
	Fivebros	Fivebros Forgings Pvt. Ltd. 145-A, G.I.D.C. Estate 393002 Ankleshwar, Gujarat
	Tubacex Prakash India	Tubacex Tubes and Pipes Private Limited 396171 Umbergaon, Dist. Valsad, Gujarat
<b>Italy</b>	ALC	ALCE S.r.l. 20080 Albairate (MI)
	ASO	ASO Forge a branch of ASO SIDERURGICA S.r.l. 25045 Castegnato (BS)
	Cogne	Cogne Acciai Special S.r.l 11100 Aosta
	Foroni	Foroni S.p.A. 21055 Gorla Minore (VA)
	Italfond	Italfond S.p.A. 25021 Bagnolo Mella (BS)
	MST-I	Salzgitter Mannesmann Stainless Tubes Italia S.r.l. 24062 Costa Volpino (BG)
	VIE	FORGIATURA A. VIENNA S.r.l. Via Ospiate 46/48 20017 RHO (MI)
	<b>Japan</b>	NIPPON
Yakin		NIPPON Yakin Kogyo Co. Ltd. 210-8558 Kawasaki
<b>People's Republic of China</b>	Bohon	Jiangyin BOHON Machinery Flanges Co, Ltd. No.581-1, Yungu Road, Changshou, Zhouzhuang Town, Jiangyin City, 214424 Jiangsu Province
	KDKC	Kunshan DAEKYUNG Stainless steel Co. Ltd. 215300 Jiangsu Province

<b>People's Republic of China</b>	TISCO	Shanxi Taigang Stainless Steel Co., Ltd. Werk Taiyuan und Linfen 030003 Shanxi
	Unique	Jiangyin Unique Flange Manufacturing Co., Ltd., 66, Haida Road, Huashi Town, Jiangyin City, 214421 Jiangsu Province
<b>Slovenia</b>	Acroni	Acroni d.o.o. SL-4270 Jesenice
<b>Spain</b>	Acerinox	Acerinox S.A. 11379 Los Barrios (Cádiz)
	A.I. OLARRA	Aceros Inoxidables OLARRA, S.A. 48080 Bilbao
	TTI	ACERIA de Alava S.A.T.T.I – (Tubacex Tubos Inoxidables, S.A.) 01400 Llodio (Alava)
<b>Sweden</b>	Outo-HRP	Outokumpu Stainless AB Degerfors Works, Hot Rolled Plate 69381 Degerfors
	Outo-KBR	Outokumpu Stainless AB Special Coil Avesta 77422 Avesta
	Outo-Nyby	Outokumpu Stainless AB Special Coil Nyby 64480 Torshälla
	Sandvik	AB Sandvik Materials Technology 81181 Sandviken
<b>Switzerland</b>	Imbach	Imbach & Cie. AG 6244 Nebikon
	Stooss	Schmiedewerk Stoos AG Zürich Werk Hedingen 8908 Hedingen
<b>Ukraine</b>	Centravis	Centravis Production Ukraine PJSC Nikopol 53201
<b>USA</b>	ATI	Allegheny Ludlum L.L.C. Brackenridge Works PA 15014 Brackenridge, Pennsylvania
	MFC	Maass Flange Corporation Houston, TX 77092

## 2 Brand designation and stamp

Manufacturer	Brand designation	Stamp
A.I. OLARRA	1.4462	1.4462
Acerinox	1.4462	1.4462
Acroni	1.4462	1.4462
AG	1.4462	1.4462

<b>Manufacturer</b>	<b>Brand designation</b>	<b>Stamp</b>
ALC	1.4462	1.4462
Ambica	1.4462	1.4462
APERAM	DX 2205	1.4462
ASO	1.4462	1.4462
ATI	ATI 2205	ATI 2205 oder 1.4462
Bebitz	1.4462	1.4462
BGH	1.4462	1.4462
Böhler	Böhler A 903	A 903 oder 1.4462
Bohon	1.4462	1.4462
Brück	1.4462	1.4462
Centravis	1.4462	1.4462
CHS	1.4462	1.4462
CLI	Uranus 45	1.4462
Cogne	1.4462	1.4462
DEW-S	Acidur 4462	Acidur 4462 or 1.4462
DEW-WK	Acidur 4462	Acidur 4462 or 1.4462
DIRO	1.4462	1.4462
ERW	1.4462	1.4462
Fivebros	1.4462	1.4462
Foroni	1.4462	1.4462
GG	RP 4462	1.4462
H	1.4462	1.4462
HJE	1.4462	1.4462
HS	1.4462	1.4462
HWE	1.4462	1.4462
Imbach	1.4462	1.4462
Italfond	1.4462	1.4462
KDKC	1.4462	1.4462
KIND&CO	Coracid 4462	1.4462
Kollmeder	1.4462	1.4462
Maass	1.4462	1.4462
MFC	1.4462	1.4462
m-gi	1.4462	1.4462
MST-D	DMV 22.5	DMV 22.5
MST-F	DMV 22.5	DMV 22.5

Manufacturer	Brand designation	Stamp
MST-I	DMV 22.5	DMV 22.5
NIPPON	NSSC DX1	1.4462
NM	1.4462	1.4462
OTK-NR	Nirosta 4462	1.4462
Outo-HRP	2205	1.4462
Outo-KBR	2205	1.4462
Outo-Nyby	2205	1.4462
Outo-Tornio	2205	1.4462
S + C	Märker Irrubigo, 4462	4462
Sandvik	Sandvik SAF 2205	SAF 2205 oder 1.4462
SBS	A 903	1.4462
SCPT	Sandvik SAF 2205	SAF 2205 oder 1.4462
SES	Silver Fox 22/5	Silver Fox 22/5
Sterling	1.4462	1.4462
Stooss	1.4462	1.4462
TISCO	1.4462	1.4462
TPS	1.4462	1.4462
TTI	Tubacex 1.4462	Tubacex 1.4462
Tubacex Prakash India	1.4462	1.4462
Ugine	Uranus 45 N	1.4462
UIB	FAFER 4462	1.4462
Unique	1.4462	1.4462
US	84 DX	1.4462
VIE	1.4462	1.4462
WAF	1.4462	1.4462
Yakin	NAS329J3L	1.4462

## 3

**Appraised dimensions**

Manufacturer	Product form	max. Dimension [mm]	
		Thickness	Diameter
A.I. OLARRA	strip, structural steel and bar	–	100
Acerinox	cold rolled strip	6	–
Acerinox	hot rolled strip	8	–
Acerinox	plate	50	–

Manufacturer	Product form	max. Dimension [mm]	
		Thickness	Diameter
Acroni	plate	100	–
AG	forging	135	–
AG	strip, structural steel and bar	–	135
ALC	seamless tube	5	57
Ambica	structural steel and bar	–	110
APERAM	plate	10	–
ASO	strip, structural steel and bar	–	400
ATI	cold rolled strip	4	–
ATI	hot rolled strip	8	–
ATI	plate	50	–
Bebitz	flange	60	–
BGH	forging	170	–
BGH	strip, structural steel and bar	–	250
Böhler	forging	225	–
Böhler	plate	60	–
Böhler	strip, structural steel and bar	–	225
Bohon	flange	180	–
Brück	flange	250	–
Brück	forging	250	–
Centravis	seamless tube	8	140
CHS	forging	250	–
CHS	strip, structural steel and bar	–	250
CLI	plate	100	–
Cogne	strip, structural steel and bar	–	250
DEW-S	hot rolled strip	8	–
DEW-S	plate	80	–
DEW-S	strip, structural steel and bar	–	250
DEW-WK	plate	50	–
DEW-WK	strip, structural steel and bar	8	–
DEW-WK	strip, structural steel and bar	–	250
DIRO	forging	280	–
DIRO	structural steel and bar	–	400
ERW	forging	250	–
Fivebros	flange	220	–



Manufacturer	Product form	max. Dimension [mm]	
		Thickness	Diameter
Fivebros	forging	250	–
Fivebros	strip, structural steel and bar	–	400
Foroni	strip, structural steel and bar	–	250
GG	forging	250	–
GG	strip, structural steel and bar	–	250
H	strip, structural steel and bar	–	160
HJE	flange	75	–
HJE	forging	140	–
HS	flange	120	–
HS	forging	120	–
HWE	forging	250	-
HWE	structural steel and bar	–	250
Imbach	flange	250	–
Imbach	forging	250	–
Italfond	strip, structural steel and bar	–	400
KDKC	hot rolled strip	8	–
KIND&CO	forging	250	–
KIND&CO	strip, structural steel and bar	–	250
Kollmeder	flange	250	–
Kollmeder	forging	250	–
Maass	flange	90	–
Maass	forging	90	–
MFC	flange	48	–
m-gi	flange	100	–
MST-D	seamless tube	24	273
MST-F	seamless tube	24	273
MST-I	seamless tube	8	88,9
NIPPON	plate	60	–
NM	flange	40	–
OLARRA	strip, structural steel and bar	–	100
OTK-NR	cold rolled strip	6,35	–
OTK-NR	hot rolled strip	8	–
OTK-NR	plate	50	–
OTK-NR	strip, structural steel and bar	–	250

Manufacturer	Product form	max. Dimension [mm]	
		Thickness	Diameter
Outo-HRP	plate	50	–
Outo-KBR	cold rolled strip	6,35	–
Outo-KBR	hot rolled strip	12	–
Outo-Nyby	cold rolled strip	5	–
Outo-Tornio	hot rolled strip	6	–
Outo-Tornio	cold rolled strip	4,5	–
S + C	forging	250	–
S + C	strip, structural steel and bar	–	250
Sandvik	seamless tube	24	273
Sandvik	strip, structural steel and bar	–	30
SBS	seamless tube	24	273
SCPT	seamless tube	3	76
SES	strip, structural steel and bar	–	100
Sterling	seamless tube	18,3	168,3
Stoos	forging	250	–
TISCO Linfen	plate	75	–
TISCO Taiyuan	plate	40	–
TPS	seamless tube	2,5	60
TTI	seamless tube	24	273
Tubacex Prakash India	seamless tube	9,5	220
UIB	plate	80	–
Unique	flange	250	–
US	strip, structural steel and bar	–	200
VAX	seamless tube	6	100
VIE	forging	250	–
WAF	flange	40	–
Yakin	cold rolled strip	6	–
Yakin	hot rolled strip	7	–
Yakin	plate	60	–