

10 / 2018



ORIGINAL SUPERB BAVARIAN AND BOHEMIAN TWO-ROW MALTS

WEYERMANN® MALT

Weyermann® Specialty Malting Company · Brennerstrasse 17-19 · 96052 Bamberg - Germany

Phone: + 49 - (0)951 - 93 220 - 120 · e-mail: info@weyermann.de · www.weyermannmalt.com



LME SINAMAR®

Weyermann® Specialty Malting Company · Brennerstrasse 17-19 · 96052 Bamberg - Germany

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WEYERMANN® SPECIALTY MALTS



A taste for quality is a taste for life.

WEYERMANN® MALT

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Welcome to the Weyermann® World of Specialty Malts!

Your partner in all malt matters.

We have the largest selection of malts, all produced in our own plants.

Our Quality Management Systems are DIN ISO 9001 certified.

These are the guarantees for the quality of all our specialty malts, malt extracts and LME SINAMAD®

- Our highly trained and skilled production team
- Our overall-process control system which allows us to monitor every step of our operation - from the barley at the receiving dock, through silo storage and malting, to tracking all exports of the final product
- Regular analyses by federally licensed food inspection and audit companies
- Adherence to the requirements of the German Purity Law
- Exclusively German-grown, top-quality, non genetically-modified crop varieties of barley, wheat and rye planted specifically for brewery use
- State-of-the-art, cutting-edge malting and brewing equipment
- Fast and precise traceability of our entire line of specialty malts from the grower to the finished specialty malt by way of unique lot numbers encoded in D2 barcode transparencies
- Individual batch analysis data customer-downloadable using D2 barcode scans (individual batch analyses are also available online)

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The Weyermann® Malt Aroma Wheel®

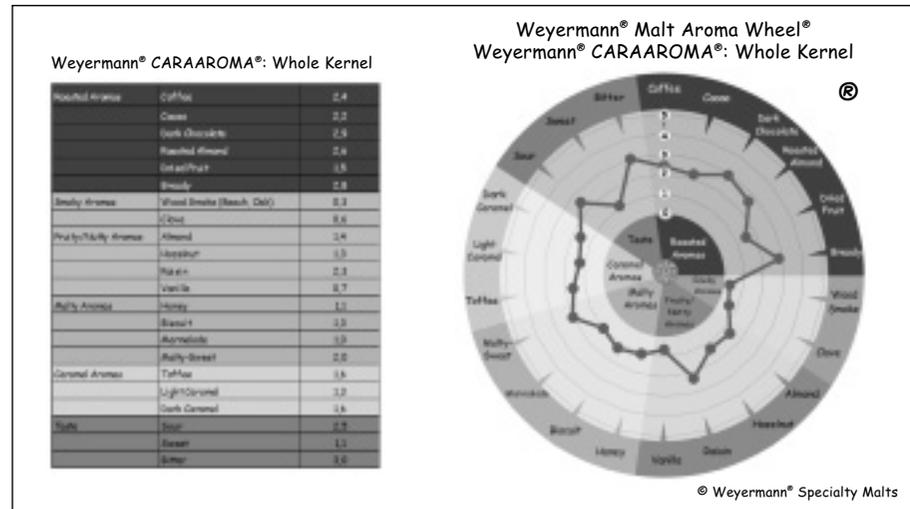
A valuable brewery tool for developing and describing beer recipes

The worldwide trend towards ever more specialty beers with character, as well as the growing acceptance of these beers by consumers are the key forces behind the increasing use of specialty malts in the brew houses of by large, midsize, and small breweries. For this burgeoning market segment, Weyermann® offers the largest spectrum of malt varieties.

The new trends in beer tastes make it the more important for brewers to have a standard vocabulary available with which to communicate the differentiated characteristics of the specialty malts they put into their mashes. To this end, Weyermann® has developed a new tool, the Malt Aroma Wheel®, which aids brewers in the selection and use of their specialty malts.

The Malt Aroma Wheel® is a registered trademark of the Weyermann® Malting Company of Bamberg, Germany.

The Weyermann® Malt Aroma Wheel® was developed empirically through sensory analysis and is based on the following categories:



Roasted Aromas:

Coffee, Cacao, Dark Chocolate, Roasted Almond, Dried Fruit, Bready

Smoky Aromas:

Wood Smoke (Beech, Oak), Clove

Fruity/Nutty Aromas:

Almond, Hazelnut, Raisin, Vanilla

Malty Aromas:

Honey, Biscuit, Marmalade, Malty-Sweet

Caramel Aromas:

Toffee, Light Caramel, Dark Caramel

Taste:

Sour, Sweet, Bitter

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Weyermann® Malt Aroma Wheel®
Weyermann® Barke® Pilsner Malt: Whole Kernel



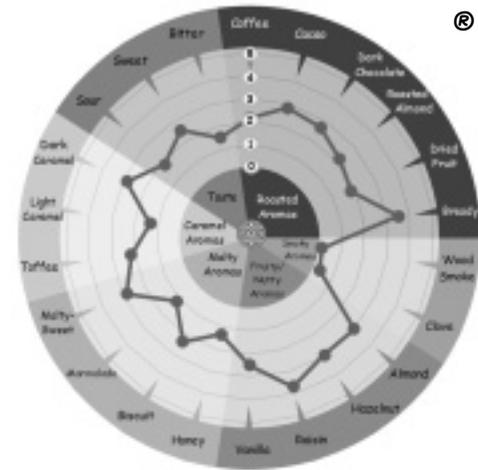
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Weyermann® Malt Aroma Wheel®
Weyermann® Abbey Malt®: Whole Kernel



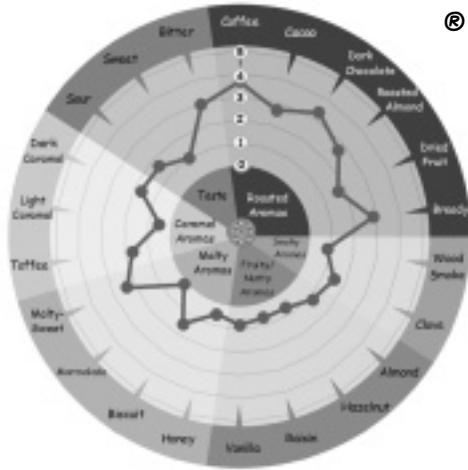
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Weyermann® Malt Aroma Wheel®
Weyermann® Special W®: Whole Kernel



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Weyermann® Malt Aroma Wheel®
Weyermann® CARAFA® SPECIAL: Whole Kernel



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Weyermann® Malt Aroma Wheel®
Weyermann® Dark Wheat Malt: Whole Kernel



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Weyermann® Malt Aroma Wheel®
Weyermann® Beech Smoked Barley Malt: Whole Kernel



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Individual Weyermann® Malt Aroma Wheels® are part of the product specifications of every malt variety and can be downloaded online from the Weyermann® Homepage.
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Brew Malt	EBC	Lovibond	Use	Rate	Result	Availability
Weyermann® Extra Pale Premium Pilsner Malt	2.0 - 3.5	1.2 - 1.8	<ul style="list-style-type: none"> • Pils / Pilsners / Pilsners as well as any lager and ale styles requiring pale base malt 	up to 100 %	<ul style="list-style-type: none"> • produces authentic Pilsener-style flavors and aromas • extra pale beer color 	in stock
* Weyermann® Pilsner Malt	2.5 - 4.5	1.4 - 2.1	<ul style="list-style-type: none"> • Pilsner • Lagers • Ales 	up to 100 %	<ul style="list-style-type: none"> • produces superb: Pilsner Lagers 	in stock
* Weyermann® Pale Ale Malt	5.5 - 7.5	2.5 - 3.3	<ul style="list-style-type: none"> • for all beer types • Ale • Stout • Porter 	up to 100 %	<ul style="list-style-type: none"> • produces superb: Lagers Ales 	in stock
* Weyermann® Vienna Malt	6.0 - 9.0	2.7 - 3.8	<ul style="list-style-type: none"> • Vienna Beer Style • “Maerzenbier” • “Mai-Bock” • Amber Lager • Home Brew Beer • Golden Ale • October Beer 	up to 100 %	<ul style="list-style-type: none"> • full bodied, golden colored smooth tasting beers 	in stock

* On demand: This malt is also available as a certified organic product - certified by Kiwa BCS Öko-Garantie DE-ÖKO-001

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Brew Malt	EBC	Lovibond	Use	Rate	Result	Availability
* Weyermann® Munich Malt	I 12 - 18 II* 20 - 25	5.0 - 7.2 8.0 - 9.9	<ul style="list-style-type: none">• Dark Lagers• Dark Beer• Bock Beer• October Beer• Stout• "Schwarzbier"• Brown Ale• Dark Ale• Amber Beer	up to 100 %	<ul style="list-style-type: none">• enhanced dark beer body and aroma	in stock

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Smoked Malt	EBC	Lovibond	Use	Rate	Result	Availability
* Weyermann® Beech Smoked Barley Malt	4.0 - 8.0	2.0 - 3.5	<ul style="list-style-type: none"> • Smoked Beer • Specialty beers “Bamberger Rauchbier” • “Kellerbier” • Lager • Alaskan Ale • Scottish Ale 	up to 100 %	<ul style="list-style-type: none"> • produced from German-grown top-quality spring barley • characteristic beech smoke aroma and taste; gentle notes of vanilla and honey 	in stock
Weyermann® Oak Smoked Wheat Malt	4.0 - 6.0	2.0 - 2.7	<ul style="list-style-type: none"> • Wheat Beers • Smoked Wheat Ales • Ales • Smoked Ales 	up to 80 %	<ul style="list-style-type: none"> • produced from German-grown top-quality wheat • finest oak smoke aroma and taste; notes of vanilla and honey 	in stock
			<ul style="list-style-type: none"> • Grodziskie (Grätzer Beer) 	up to 100 %		

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Special Malt	EBC	Lovibond	Use	Rate	Result	Availability
* Weyermann® Acidulated Malt pH 3.3 - 4.5	2.5 - 12	1.4 - 5.0	<ul style="list-style-type: none"> • Pilsner • Light Beer • “Schankbier” • Wheat Beer • Ales 	1 - 5 % (10 % for sour styles)	Reduction of mash-pH leads to: <ul style="list-style-type: none"> • a better mash working • intensified fermentation • lighter Pilsner color • improved flavor stability • “well-rounded” beer flavor 	in stock
Weyermann® Melanoidin Malt	60 - 80	23.1 - 30.6	<ul style="list-style-type: none"> • Amber Lager • Dark Lager, Ale • Scottish Ale • Amber Ale • Red Ale • Red Colored Beer • Munich “Salvator” • Wheat Beer 	up to 20 %	<ul style="list-style-type: none"> • improved flavor stability, fullness and rounding of the beer color • improved red color of beer • intense maltiness; notes of honey and biscuit 	in stock

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Wheat Malt	EBC	Lovibond	Use	Rate	Result	Availability
* Weyermann® Pale Wheat Malt	3.0 - 5.0	1.6 - 2.3	<ul style="list-style-type: none"> • Wheat Beer • “Hefe-Weizen” • “Kölsch” • “Altbier” 	up to 80 %	<ul style="list-style-type: none"> • typical top-fermented aroma • a slimmer, more sprightly beer • produces superb wheat beers with aromas appropriate for styles 	in stock
Weyermann® Dark Wheat Malt	15 - 20	6.1 - 8.0	<ul style="list-style-type: none"> • top-fermented “Schankbier” • Light Beer • alcohol-reduced Beer • non-alcoholic Beer • Ales 	up to 50 %		in stock
Weyermann® CARAWHEAT® Caramel Wheat Malt	110 - 140	41.9 - 53.2	<ul style="list-style-type: none"> • Dark Ale • “Hefe-Weizen” • “Dunkel-Weizen” • top-fermented Beer 	up to 15 %	<ul style="list-style-type: none"> • promoted fullness • emphasized typical wheat malt aroma • enhanced color • mild notes of caramel, almonds, biscuit, and bread 	in stock
Weyermann® Chocolate Wheat Malt (roasted malt)	900 - 1200	339.8 - 452.9	<ul style="list-style-type: none"> • top-fermented Beer • Alt Beer • Dark Wheat Beer • Stout • Porter 	1 - 5 %	<ul style="list-style-type: none"> • intensified aroma of dark top-fermented beers as well as improved color • mild roast aroma 	in stock

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Caramel Malt	EBC	Lovibond	Use	Rate	Result	Availability
* Weyermann® CARAPILS®	2.5 - 6.5	1.4 - 2.9	<ul style="list-style-type: none"> • Pilsner • “Lagerbier” • alcohol-reduced Beer • Light Beer • Bock Beer 	5 - 10 % up to 40 %	<ul style="list-style-type: none"> • foam improvement • improved head retention • fuller body 	in stock
* Weyermann® CARAHELL®	20 - 30	8.0 - 11.8	<ul style="list-style-type: none"> • “Hefe-Weizen” • Pale Ale • Golden Ale • October Beer • Nourishing Beer • “Maibock” 	10 - 15 %	<ul style="list-style-type: none"> • fuller body • improved aroma • good effect on beer foam • full, round flavor • deep, saturated color • gentle notes of caramel 	in stock
			<ul style="list-style-type: none"> • “Schankbier” • Light Beer • alcohol-reduced Beer • non-alcoholic Beer 	up to 30 %		
* Weyermann® CARARED®	40 - 60	15.5 - 23.1	<ul style="list-style-type: none"> • Red Ale • Red Lager • Scottish Ale • Amber Wheat • Bock Beer • Brown Ale • Alt Beer 	up to 25 %	<ul style="list-style-type: none"> • fuller body • deep, saturated color • red color • improved malt aroma • notes of caramel, honey and biscuit 	in stock

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Caramel Malt	EBC	Lovibond	Use	Rate	Result	Availability
Weyermann® CARAAMBER®	60 - 80	23.1 - 30.6	<ul style="list-style-type: none"> • Bock Beer • Dunkel Ale • Brown Ale • Red Lager • Amber Ale • Amber Lager 	up to 20 %	<ul style="list-style-type: none"> • improved flavor stability • promoted fullness • enhanced color • full red color • better mash efficiency • notes of toffee, caramel, and bread 	in stock
* Weyermann® CARAMUNICH®	I 80 - 100 II* 110 - 130 III 140 - 160	I 30.6 - 38.2 II* 41.9 - 49.5 III 53.2 - 60.8	<ul style="list-style-type: none"> • October Beer • "Bockbier" • Dark Beer • Porter • Stout • Malt Beer • Nourishing Beer • "Schankbier" • Red Ale • Brown Ale • Malt-Liquor • Amber 	5 - 10 % for dark beer 1 - 5% for light beer, pale ale	<ul style="list-style-type: none"> • increased fullness • heightened malt aroma • full, round flavor • deep, saturated color • intense caramel aroma; notes of biscuit 	in stock
* Weyermann® CARAAROMA®	350 - 450	132.4 - 170.1	<ul style="list-style-type: none"> • Amber Ale • Dunkel Lager • Dark Ale • Stout • Porter • Bock Beer 	up to 15 %	<ul style="list-style-type: none"> • fuller body • deep, saturated color • red color • improved malt aroma • notes of roasted nuts, dark caramel, and dried fruits 	in stock

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Caramel Malt	EBC	Lovibond	Use	Rate	Result	Availability
Weyermann® CARABELGE®	30 - 35	11.8 - 13.6	<ul style="list-style-type: none"> • Belgian Specialty Beers • Belgian “Blonde” Beers • Belgian “Bruin” (Brown) Beers • Belgian Amber Beers • Tripel • Dubbel 	up to 30 %	<ul style="list-style-type: none"> • mild, restrained notes of caramel; • notes of dried fruits and nuts • honey-colored hue 	in stock
Weyermann® CARABOHEMIAN®	170 - 220	64.5 - 83.4	<ul style="list-style-type: none"> • Bohemian Lagers • Bohemian Dark Lagers • Bohemian Bock Beers • Bohemian Specialty Beers • Porter • Stout • Ales • Bock Beers • October Beers 	up to 15 %	<ul style="list-style-type: none"> • intensified caramel aroma; • notes of bread, caramel, and toffee • fuller body 	in stock
Weyermann® CARAWHEAT®	110 - 140	41.9 - 53.2	<ul style="list-style-type: none"> • Dark Ale • “Hefe-Weizen” • “Dunkel-Weizen” • top-fermented Beer 	up to 15 %	<ul style="list-style-type: none"> • promoted fullness • emphasized typical wheat malt aroma • enhanced color 	in stock
Weyermann® CARARYE®	150 - 200	57.0 - 75.9	<ul style="list-style-type: none"> • Specialty Beers • Rye Ale • Rye Lager • Dunkel Rye Wheat 	up to 15 %	<ul style="list-style-type: none"> • typical rye flavor • nice brown color 	4 weeks

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We proudly present a new line of Weyermann® heirloom malts: the Barke® Line

Barke® Malt	EBC	Lovibond	Use	Rate	Result	Availability
Weyermann® Barke® Pilsner Malt	2.5 - 4.5	1.4 - 2.1	<ul style="list-style-type: none"> • Pilsner • Bavarian Helles • Lager • “Kellerbier” • alcohol-reduced Beer • non-alcoholic Beer 	up to 100 %	<ul style="list-style-type: none"> • for authentic lagers • enhances body and mouthfeel substantially • intense malt aromas • excellent process characteristics in the brew house and during filtration • for increased extract efficiency 	in stock
Weyermann® Barke® Vienna Malt	6.0 - 9.0	2.7 - 3.8	<ul style="list-style-type: none"> • Bavarian Dunkel • “Festbier” • “Maerzenbier” • Pale Ale / IPA • Lager • Stout • Vienna Lager 	up to 100 %	<ul style="list-style-type: none"> • full-bodied • golden color • smooth taste • intensely malty-sweet; gentle notes of honey and nuts (almond and hazelnut) • excellent process characteristics in the brew house and during filtration • for increased extract efficiency • THE malt for authentic lagers 	in stock
Weyermann® Barke® Munich Malt	17 - 22	6.9 - 8.7	<ul style="list-style-type: none"> • Dark Beer • “Schwarzbier” • “Festbier” • Bock Beer • October Beer • Dubbel • “Kellerbier” • Stout • Munich Dunkel 	up to 100 %	<ul style="list-style-type: none"> • enhanced body and dark-beer aroma • richly malt-aromatic; notes of honey, and biscuit • excellent process characteristics in the brew house and during filtration • for increased extract efficiency • strong malt flavor and classic character for original Munich Dunkel 	in stock

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We proudly present a new line of Weyermann® terroir malts: the Eraclea Line

produced from Eraclea premium brewing barley cultivated in the region of Venetia, Italy

Brew Malt	EBC	Lovibond	Use	Rate	Result	Availability
Weyermann® Eraclea Pilsner Malt	2.5 - 4.5	1.4 - 2.1	<ul style="list-style-type: none">• mediterranean Lager and Ales• Pilsner Beer• non-alcoholic Beer• alcohol-reduced Beer• all other beer styles	up to 100 %	<ul style="list-style-type: none">• malted from Eraclea premium brewing barley cultivated in the region of Venetia, Italy• produces excellent light- to medium-body, mediterranean pale beers with excellent foam stability• Aroma: malty-sweet with mild notes of honey• perfectly harmonizes with mediterranean aroma hop varieties from Slovenia	in stock

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Bohemian Malt	EBC	Lovibond	Use	Rate	Result	Availability
Weyermann® Bohemian Pilsner Malt	3.0 - 5.0	1.6 - 2.3	<ul style="list-style-type: none"> • Pilsner • Lagers • Ales 	up to 100 %	<ul style="list-style-type: none"> • produced from Bohemian barley varieties • produces superb: Pilsner Lagers 	in stock
Weyermann® Floor-Malted Bohemian Pilsner Malt	3.0 - 5.0	1.6 - 2.3	<ul style="list-style-type: none"> • authentic Bohemian Pilsners • European Lagers • full-bodied international ale and lager styles 	up to 100 %	<ul style="list-style-type: none"> • made in an original floor malting facility from Bohemian spring barley • produces authentic traditional, Bohemian-style malt flavors and aromas • suitable for all lagers and ales 	in stock
Weyermann® Floor-Malted Bohemian Dark Malt	12 - 20	5.0 - 8.0	<ul style="list-style-type: none"> • Bohemian Dark Lagers • Bohemian Festival Beers • Dark Ales • Bock Beers 	up to 100 %	<ul style="list-style-type: none"> • intensified malt aroma and taste • full body • malt sweetness 	in stock

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Bohemian Malt	EBC	Lovibond	Use	Rate	Result	Availability
Weyermann® Floor-Malted Bohemian Wheat Malt	3.0 - 5.5	1.6 - 2.5	<ul style="list-style-type: none"> • Bohemian Wheat Beers • Weizenbock • full-bodied international Ales 	up to 70 % up to 100 % (mash filter)	<ul style="list-style-type: none"> • intensified wheat malt aroma and taste • mild sweetness • creamy mouthfeel 	in stock
Weyermann® CARABOHEMIAN®	170 - 220	64.5 - 83.4	<ul style="list-style-type: none"> • Bohemian Lagers • Bohemian Dark Lagers • Bohemian Bock Beers • Bohemian Specialty Beers • Porter • Stout • Ales • Bock Beers • October Beers 	up to 15 %	<ul style="list-style-type: none"> • intensified caramel aroma; notes of bread, caramel, and toffee • fuller body 	in stock

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Belgian Style Malt	EBC	Lovibond	Use	Rate	Result	Availability
Weyermann® CARABELGE®	30 - 35	11.8 - 13.6	<ul style="list-style-type: none"> • Belgian Specialty Beers • Belgian “Blonde” Beers • Belgian “Bruin” (Brown) Beers • Belgian Amber Beers • Tripel • Dubbel 	up to 30 %	<ul style="list-style-type: none"> • mild, restrained notes of caramel; • notes of dried fruits and nuts • honey-colored hue 	in stock
Weyermann® Abbey Malt®	40 - 50	15.5 - 19.3	<ul style="list-style-type: none"> • Traditional Abbey Ales • Trappist Ales • Belgian Specialty Beers • Belgian “Blonde” Beers • Belgian “Bruin” (Brown) Beers • Fest-Beers • Belgian Amber Beers • Belgian Ales • Faro • Fruit Beers 	up to 50 %	<ul style="list-style-type: none"> • highly friable base malt • pronounced maltiness • honey notes 	in stock

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Belgian Style Malt	EBC	Lovibond	Use	Rate	Result	Availability
Weyermann® Special W®	280 - 320	106 - 121.1	<ul style="list-style-type: none"> • Belgian Specialty Beers • Belgian “Bruin” (Brown) Beers • Belgian Amber Beers • Belgian Ales • Brown Ales • Barley Wine • Porter • Stout • Schwarzbier • Doppelbock • Eisbock 	up to 15 %	<ul style="list-style-type: none"> • dark-amber to deep-coppery color • adds mouthfeel • very intense, complex, mild, caramel flavor • bread crust, raisins, nutty flavor 	in stock

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Chocolate Roasted Malt	EBC	Lovibond	Use	Rate	Result	Availability
* Weyermann® CARAFA®	I 800-1000 II* 1100-1200 III 1300-1500	I 302.1-377.5 II* 415.2-452.9 III 490.6-566.0	<ul style="list-style-type: none"> • Dark Beer • “Salvator Bockbier” • Stout • Porter 	1 - 5 %	<ul style="list-style-type: none"> • deeper aroma of dark beers as well as beer color 	in stock
Weyermann® CARAFA® SPECIAL from dehusked barley	I 800-1000 II 1100-1200 III 1300-1500	I 302.1-377.5 II 415.2-452.9 III 490.6-566.0	<ul style="list-style-type: none"> • Alt Beer • “Bockbier” • “Schwarzbier” 		<ul style="list-style-type: none"> • our unique de-husked roasted barley malt adds aroma, color and body, with a mild, smooth flavor 	in stock
* Weyermann® Chocolate Wheat Malt (roasted malt)	900 - 1200	339.8 - 452.9	<ul style="list-style-type: none"> • top-fermented Beer • Alt Beer • Dark Wheat Beer • Stout • Porter 	1 - 5 %	<ul style="list-style-type: none"> • intensified aroma of dark top-fermented beers as well as improved color • mild roast aroma 	in stock
* Weyermann® Chocolate Rye Malt (roasted malt)	500 - 800 (Also available in customer-specified color values)	189.0 - 302.1	<ul style="list-style-type: none"> • top-fermented Specialty Beer • Dunkel Rye Wheat • Dunkel Rye Ale 	1 - 5 %	<ul style="list-style-type: none"> • enhanced aroma of dark, top-fermented beers as well as improved color 	in stock
Weyermann® Chocolate Spelt Malt (Chocolate German Wheat Malt)	450 - 1000	170.1 - 377.5	<ul style="list-style-type: none"> • Specialty beers • Multigrain beers 	up to 5 %	<ul style="list-style-type: none"> • enhanced aroma of dark top-fermented beers • improved color 	4 weeks

CARAFA® is a registered trademark of the Weyermann® Specialty Malting Company, Bamberg, Germany

* On demand: This malt is also available as a certified organic product - certified by Kiwa BCS Öko-Garantie DE-ÖKO-001

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Roasted Unmalted Grains	EBC	Lovibond	Use	Rate	Result	Availability
Weyermann® Roasted Barley	1000 - 1300	377.5 - 490.6	<ul style="list-style-type: none">• Stout• Dark Beer	up to 5 %	<ul style="list-style-type: none">• typical roasty aroma	in stock

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Diastatic Malt	EBC	Lovibond	Use	Rate	Result	Availability
* Weyermann® Diastatic Barley Malt	2.5 - 4.0	1.4 - 2.0	<ul style="list-style-type: none"> • any Ale or Lager • replaces all or portion of Pale Ale or Pilsner Malt for all other beer types 	up to 50 %	<ul style="list-style-type: none"> • exceptional amylase strength • accelerates and enhances saccharification in mash for better extract efficiency and larger proportion of fermentables in wort, without loss of malt flavor • high diastatic power 	in stock
* Weyermann® Diastatic Wheat Malt	3.0 - 5.0	1.6 - 2.3	<ul style="list-style-type: none"> • Ales • “Dunkelweizen” • “Weizenbock” • „Weizendoppelbock“ • Pub Wheat Ales • light or low-alcohol Beers 	up to 50 %	<ul style="list-style-type: none"> • ideal addition to pale or dark beers, whenever extra diastatic power is needed in the mash • can be used to replace „regular“ Pale Wheat Malt • high diastatic power 	in stock

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Rye Malt	EBC	Lovibond	Use	Rate	Result	Availability
* Weyermann® Pale Rye Malt	4.0 - 10.0	2.0 - 4.2	<ul style="list-style-type: none"> • Seasonal Beers • Rye Beers (Rye Ale and Rye Lager) • Specialty Beers • Multigrain Beers • top-fermented rye beers 	up to 60 %	<ul style="list-style-type: none"> • typical top-fermented rye flavored beers • typical rye aroma; notes of bread • creamy mouthfeel 	in stock
Weyermann® CARARYE® Caramel Rye Malt	150 - 200	57.0 - 75.9	<ul style="list-style-type: none"> • Specialty Beers • Rye Ale • Rye Lager • Dunkel Rye Wheat 	up to 15 %	<ul style="list-style-type: none"> • nice brown color • typical rye flavor 	4 weeks
* Weyermann® Chocolate Rye Malt (roasted malt)	500 - 800 (Also available in customer-specified color values)	189.0 - 302.1	top-fermented Specialty Beers: <ul style="list-style-type: none"> • Dunkel Rye Wheat • Dunkel Rye Ale 	1 - 5 %	<ul style="list-style-type: none"> • enhanced aroma of dark, top-fermented beers as well as improved color 	in stock

CARARYE® is a registered trademark of the Weyermann® Specialty Malting Company, Bamberg, Germany

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Spelt Malt	EBC	Lovibond	Use	Rate	Result	Availability
* Weyermann® Spelt Malt	3.0 - 7.0	1.6 - 3.1	<ul style="list-style-type: none"> • Spelt Beers • Specialty Beers • Multigrain Beers • Top-fermented Specialty Beers 	up to 60 %	<ul style="list-style-type: none"> • typical top-fermented spelt beers • creamy mouthfeel • typical spelt aroma; notes of bread 	on demand
Weyermann® Chocolate Spelt Malt (Chocolate German Wheat Malt)	450 - 1000	170.1 - 377.5	<ul style="list-style-type: none"> • Specialty beers • Multigrain beers 	up to 5 %	<ul style="list-style-type: none"> • enhanced aroma of dark top-fermented beers • improved color 	4 weeks

* On demand: This malt is also available as a certified organic product - certified by Kiwa BCS Öko-Garantie DE-ÖKO-001

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Malt produced from certified organic cultivation

Upon request, we are able to custom-produce any of our malts from 100% organically certified raw materials, processed in accordance with all applicable organic standards.

Such malts are labeled:

**“Malt produced from 100%
certified organic cultivation” ***

Please inquire about varieties and certificates.

* certified by Kiwa BCS Öko-Garantie DE-ÖKO-001

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Weyermann® Services

Special, customized malt blends

Because of our flexible equipment configuration and process controls, we can create custom malt blends from up to five different malts, with a minimum proportion per malt of 5%. For the customer, pre-blended grist means...

- Reduced storage space
- Reduced handling costs
- Uniform product quality from thorough blending
- No malt mix-ups in the final product

Beer Recipe Consultation

Our expert staff using our well-equipped laboratory can provide technical assistance in the composing grain bills and malt blends tailored to the requirements of your finished products.

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Weyermann® Services

Shipping methods and shipment sizes

We deliver our malt and malt blends in bulk, or bagged in 25 kg bags or BigBags on pallets: 400 kg (882 lbs.) - 1.250 kg (2.756 lbs.).

We ship to Germany, Europe, and overseas

We deliver our products to customers either in our own trucks or in close cooperation with certified carriers. This allows us to ship even small quantities at a reasonable cost. As a special service, we may even also be able to supply unloading assistance.

Overseas Deliveries

20' and 40' containers, bulk or bagged goods or totes

Bulk Barge Shipments

Up to 1.000 metric tons from Bamberg or Haßfurt harbor

We also offer a large selection of display items for use in your brewery or plant - including decorative malt bags and malt displays.

Orders at: www.weyermann.de/shop

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Weyermann® Certifications



Contact:

Andrea Hahn

QMR Representative Quality Management

Phone: + 49 - (0)951 - 93 220-691

e-mail: andrea.hahn@weyermann.de

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Compliance with laws and regulations

All of our products and packaging meet the requirements of DIN EN ISO 9001 and the HACCP (Hazard Analyses of Critical Control Points) food safety management system. They also conform to all applicable government food and health regulations that are currently in force. All of our products are in compliance with the German Beer Purity Law.

All Weyermann® products are in compliance with VO (EG) Nr. 1829/2003, 1830/2003, 49/2000, and 50/2000, and do not contain any genetically modified raw materials, ingredients, or additives.

All raw materials are meticulously tested for traces of pesticides, mycotoxins, and heavy metals, and meet the requirements of VO (EG) 165/2010 and 396/2005. The nitrosamine content is below allowable thresholds. The compliance of these limit values is guaranteed by regular checks.

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Weyermann® Container Loading Details

20' Container - max. loading capacity = 20.0 to (44.092 lbs.)

Floor loading 16.5 to = 660 x 25 kg (55 lbs.) bags

Pallet loading 10.0 to = 400 x 25 kg (55 lbs.) bags (10 container-pallets)
10.0 to = 10 big bags x 1.000 kg (2.205 lbs.) (10 container-pallets)

Bulk loading between 16 - 20 tons, depending on type of malt

40' Container - max. loading capacity = 25.0 to (55.115 lbs.)

Floor loading 25.0 to = 1000 x 25 kg (55 lbs.) bags

Pallet loading 20.0 to = 800 x 25 kg (55 lbs.) bags (20 container-pallets)
20.0 to = 20 big bags x 1.000 kg (2.205 lbs.) (20 container-pallets)

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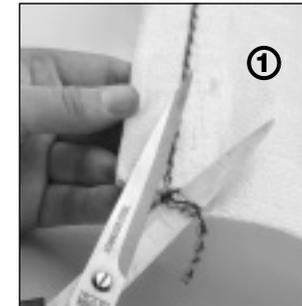
The Weyermann® Bag - Features and Opening Instructions



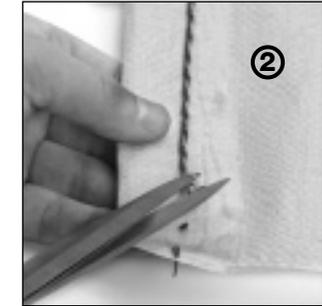
To preserve the stability and freshness of a perfectly kilned, caramelized or roasted batch of Weyermann® Malt, we package all our products exclusively in our customized Weyermann® “aroma-sealed” bags. These are tear-resistant, one-way, double-layer bags made from woven fabric with a sturdy, waterproof polyethylene inner lining. They are sewn tightly shut and always shipped with the Weyermann® quality guarantee.

To open a Weyermann® bag quickly and efficiently, do not cut into it!

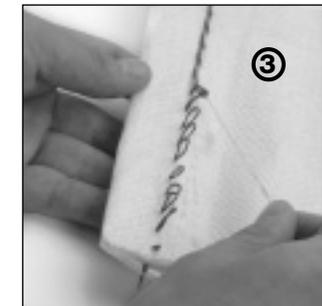
Proceed as follows:



1. To open, turn the bag to the side with Weyermann® logo facing you. Then cut off the weft yarn on the left.



2. Pull the **white** thread out of the **red** loop.



3. Then pull gently on the **white** thread until the entire seam is unraveled and the bag is fully open.

Key Features of Our Weyermann® Bags:

All bags are folded at the top and sealed with double-sewn tamper-proof seams.

Clearly marked place of origin: Bamberg, Germany.

All Weyermann® bags carry a weight indication along the side.

Each bag is marked with the malt variety inside, which remains visible even after opening.



Our bags contain 25 kilograms (55 lbs.) of malt for easy handling.

Each bag is identified by a D2-type bar code representing a unique lot number. This allows for quick and comprehensive traceability as well as download of lab analysis data for each bag.



The malt variety inside, the use-before date, as well as the packaging date and time “to the very second” are clearly printed along the side of each bag.

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WEYERMANN® MALT

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The Weyermann® Advantage

Automated BigBag filling has been in operation at Weyermann® since 2003.



- It ensures a hygienic and flawless appearance of the bags.
- All 85 Weyermann® malt varieties can now be delivered in BigBags, too.
- It allows for any type of malt blend to be formulated in BigBags to exact specifications.
- Bags may contain any amount of malt, perfectly measured between 400 kg and 1.250 kg (between 882 lbs. and 2.756 lbs.) to suit your particular brew house batch size.
- Shipments may be via Euro pallet of 80 x 120 cm (31.50" x 47.24") or container pallet of 114 x 114 cm (45" x 45").
- A maximum of 32 Euro pallets or 22 container pallets fit into one truck.

Advantages:

- Easily handling via fork-lift
- Labor saving
- Space saving
- No need for a silo



- BigBags on pallets: 400 kg (882 lbs.); 750 kg (1.653 lbs.); 1.250 kg (2.756 lbs.)



- BigBag loading

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Weyermann® - Variety even in the packaging!



Logistics center



Efficient malt delivery system



25 kg (55 lbs.) bag



Fully automated bag filling machine



Metal detector



Automated palletizing



Pallets "on the move"



Malt bags on Euro pallets

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Weyermann® - Variety even in the packaging!



Individual-bag
container loading



Four docks for truck loading and
overseas shipments



Bulk malt container
loading for overseas
shipments



BigBag
filling station



BigBags on pallets:
400 kg (882 lbs.); 750 kg (1.653 lbs.);
1.250 kg (2.756 lbs.)



BigBag loading



Three-chamber tractor-trailer allows for combination of bulk and
bagged malt transport

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Weyermann® Pilot Brewery



We invite interested brewers from around the world to come to the Weyermann® Pilot Brewery in Bamberg.

This is an ideal opportunity for creative international brewers to experiment to their hearts' content with Weyermann® malts in our 2.5 hl (2.13 bbl) - 2.8 hl (2.38 bbl) KASPAR SCHULZ mono-bloc brew house.

Contact:

Andreas Richter (QA - QC Manager)

Phone: + 49 - (0)951 - 93 220-220

e-mail: andreas.richter@weyermann.de

WEYERMANN®. A Family Tradition of Quality and Competence since 1879 ... Day after Day!

LME SINAMAR®

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 Phone: + 49 - (0)951 - 93 220 - 120 · e-mail: info@weyermann.de · www.weyermannmalt.com

LME SINAMAR® - All-Natural Liquid Malt Color	Manner of Transportation	Packaging unit	Net weight	Availability
<p>LME SINAMAR® is produced solely from our roasted malt: CARAFA®, according to the strict German “Reinheitsgebot” (purity-law). This law allows the brewer to use only the following four ingredients: WATER - ROASTED BARLEY MALT - HOPS - YEAST</p> <p>To get the characteristic color and extract, LME SINAMAR® is carefully evaporated in a vacuum process, finely filtered and canisters and containers of different sizes are filled directly at 158 °F - 167 °F (70 - 75 °C). Due to this special treatment the taste of LME SINAMAR® is less bitter. LME SINAMAR® causes no turbidity and remains pH stable. According to federal regulations, LME SINAMAR® does not need to be labeled with a so-called E-number (European Community Number). A declaration as malt extract, barley malt extract or roasted malt extract is sufficient.</p> <p>LME SINAMAR® is gluten free.</p> <p>LME SINAMAR® is perfectly suited for coloring foods such as: baked goods, beer, non-alcoholic drinks, spirits, pharmaceutical products and tea etc.</p> <p>Recommended Quantities: Use 14 g (11.9 ml) of LME SINAMAR® Color Malt Extract to darken 1 hl of beer or wort by 1 EBC; or use 1.5 oz. (1.25 fl.oz.) to darken 1bbl of beer or wort by 1° Lovibond.</p> <p>When stored in a dry place within a temperature range of 0°C to 30°C (32°F - 86°F), there is a minimum shelf life of 18 months if <u>unopened</u>. Once opened, contents should be used immediately.</p>	one-way, non-returnable canister	5 L ~ 1.32 US-gallon	5.9 kg ~ 13.0 lbs.	in stock
	one-way, non-returnable canister	10 L ~ 2.64 US-gallon	11.8 kg ~ 26.0 lbs.	in stock
	one-way, non-returnable canister		25.0 kg ~ 55.1 lbs.	in stock
	one-way, non-returnable plastic tank	up to 1000 L ~ 264.2 US-gallon		on demand
Analysis data:				
parameter	MIN	MAX	Unit	
Real extract		53	Weight -% / BRIX°	
Specific weight	1.13	1.28	g/cm³	
Color in EBC	8100	8600	EBC	
Color in Lovibond	3054.2	3242.7	Lovibond	
pH-value	3.6	4.9		
Viscosity		1000	m Pa s	

All-Natural Liquid Malt Color LME SINAMAR® is a registered trademark of the Weyermann® Specialty Malting Company, Bamberg, Germany

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CERTIFIED ORGANIC LME SINAMAR® (BIOLAND)

Weyermann® Specialty Malting Company · Brennerstrasse 17-19 · 96052 Bamberg - Germany

Phone: + 49 - (0)951 - 93 220 - 120 · e-mail: info@weyermann.de · www.weyermannmalt.com

Certified organic LME SINAMAR® (BIOLAND) All-Natural Liquid Malt Color	Manner of Transportation	Packaging unit	Net weight	Availability
<p>Certified organic LME SINAMAR® is produced solely from our roasted malt: certified organic CARAFA®, according to the strict German “Reinheitsgebot” (purity-law). This law allows the brewer to use only the following four ingredients: WATER - CERTIFIED ORGANIC ROASTED BARLEY MALT (BIOLAND) - BIOLAND HOPS - YEAST</p> <p>To get the characteristic color and extract, certified organic LME SINAMAR® is carefully evaporated in a vacuum process, finely filtered and canisters and containers of different sizes are filled directly at 158 °F - 167 °F (70 - 75 °C). Due to this special treatment the taste of certified organic LME SINAMAR® is less bitter.</p> <p>Certified organic LME SINAMAR® causes no turbidity and remains pH stable. According to federal regulations, certified organic LME SINAMAR® does not need to be labeled with a so-called E-number (European Community Number). A declaration as malt extract, barley malt extract or roasted malt extract is sufficient.</p> <p>Certified organic LME SINAMAR® is gluten free.</p> <p>Certified organic LME SINAMAR® is perfectly suited for coloring foods such as: baked goods, beer, non-alcoholic drinks, spirits, pharmaceutical products and tea etc.</p> <p>Recommended Quantities: Use 14 g (11.9 ml) of certified organic LME SINAMAR® Color Malt Extract to darken 1 hl of beer or wort by 1 EBC; or use 1.5 oz. (1.25 fl.oz.) to darken 1 bbl of beer or wort by 1° Lovibond.</p> <p>When stored in a dry place within a temperature range of 0°C to 30°C (32 °F - 86 °F), there is a minimum shelf life of 18 months if <u>unopened</u>. Once opened, contents should be used immediately.</p>	one-way, non-re- turnable canister	5 L ~ 1.32 US-gallon	5.9 kg ~ 13.0 lbs.	in stock
	one-way, non-re- turnable canister	10 L ~ 2.64 US-gallon	11.8 kg ~ 26.0 lbs.	in stock
	one-way, non-re- turnable canister		25.0 kg ~ 55.1 lbs.	in stock
	one-way, non-re- turnable plastic tank	up to 1000 L ~ 264.2 US-gallon		on demand
	Analysis data:			
parameter	MIN	MAX	Unit	
Real extract		53	Weight -% / BRIX°	
Specific weight	1.13	1.28	g/cm ³	
Color in EBC	8100	8600	EBC	
Color in Lovibond	3054.2	3242.7	Lovibond	
pH-value	3.6	4.9		
Viskosity		2000	m Pa s	

All-Natural Liquid Malt Color LME SINAMAR® is a registered trademark of the Weyermann® Specialty Malting Company, Bamberg, Germany · certified by Kiwa BCS Öko-Garantie DE-ÖKO-001

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WEYERMANN® EXTRACT

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WEYERMANN® SOUR WORT	Data Analysis			
<p>This biologically derived SOUR WORT can be used during the beer production for the natural pH value adjustment of both mash and wort. It is a nonalcoholic fermented barley malt extract and shows a hazy, brown appearance as well as a typically malty, acidic taste.</p> <p>USAGE: Brewing and beverage industry.</p> <p>Recommended Quantities: <u>Mash acidification:</u> Addition of 10 l / 1000 kg malt (USA: 1.2 US-gallon / 1000 lbs.): 0.1 pH ↓ <u>Wort acidification:</u> Addition of 6 l / 1000 kg malt (USA: 0.72 US-gallon / 1000 lbs.): 0.1 pH ↓</p> <p>Shipping units and storage conditions: The product is aseptically packed in a bag in a box (16 l / 4.23 US-gallon, 20 kg / 44.09 lbs.). It should be stored cool, dry and protected from extreme heat and cold.</p> <p>Shelf life: in unopened original packaging a shelf life of 360 days (at 20 °C / 68 °F) is given.</p>	The following values are subject to harvest-specific variations:			
	PARAMETER	MIN	MAX	UNIT
	lactic acid	52	58	g / l
	pH value	2.9	3.2	
	density	1.271	1.317	g / cm ³
refraction	58.0	65.0	° Bx	

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MALT EXTRACT for delicious Bavarian style beers!	Analysis Data					Packaging Unit	Availability
	Extract	Specific Gravity (OG)	Energy	EBC (at 13 °P)	Lovibond (at 13 °P)		
BAVARIAN PILSNER <ul style="list-style-type: none"> golden brown, unhopped extract with a high concentration, produced from Weyermann® Pilsner Malt and Weyermann® CARAPILS® it is produced by a step infusion mashing process the malt extract tastes very sweet with a well-balanced malt aroma Weyermann® Bavarian Pilsner Extract produces typical Bavarian Style Pils and Helles Lager beers as well as Light Maerzen, October Beers and Bock Beers 	72 - 79 %	1.35 - 1.40 g / ml	1252 kJ / 100 g	10 - 20	4.2 - 8.0	4 kg 8.8 lbs. Canister	in stock
BAVARIAN HEFEWEIZEN <ul style="list-style-type: none"> golden brown, unhopped extract with a high concentration, produced from Weyermann® Wheat Malt, Weyermann® Pilsner Malt and Weyermann® CARAHELL® it is produced by a decoction mashing process the malt extract tastes very sweet with a well-balanced malt aroma Weyermann® Bavarian Hefeweizen Extract produces typical Bavarian Weizen Beers, Ales and Weizen Bock Beers 	72 - 79 %	1.35 - 1.40 g / ml	1252 kJ / 100 g	20 - 35	8.0 - 13.6	4 kg 8.8 lbs. Canister	in stock

WEYERMANN® . A Family Tradition of Quality and Competence since 1879 ... Day after Day!

WEYERMANN® EXTRACT

Weyermann® Specialty Malting Company · Brennerstrasse 17-19 · 96052 Bamberg - Germany
 Phone: + 49 - (0)951 - 93 220 - 120 · e-mail: info@weyermann.de · www.weyermannmalt.com

MALT EXTRACT for delicious Bavarian style beers!	Analysis Data					Packaging Unit	Availability
	Extract	Specific Gravity (OG)	Energy	EBC (at 13°P)	Lovibond (at 13°P)		
BAVARIAN MAIBOCK <ul style="list-style-type: none"> golden brown, unhopped extract with a high concentration, produced from Weyermann® Vienna Malt (80%), Weyermann® CARAPILS® (10%) and Weyermann® CARARED® (10%) it is produced by a 2-step infusion mashing process the malt extract tastes very sweet with a well-balanced malt aroma Weyermann® Bavarian Maibock Extract produces typical Bavarian “Maibock”, an authentic Bavarian Beer Specialty and other German Style Bockbeers 	72 - 79 %	1.35 - 1.40 g / ml	1252 kJ / 100 g	20 - 50	8.0 - 19.3	4 kg 8.8 lbs. Canister	in stock
MUNICH AMBER <ul style="list-style-type: none"> light brown, unhopped extract with a high concentration, produced from Weyermann® Munich Malt Type I it is produced by a decoction mashing process the malt extract tastes sweet with a well-balanced malt aroma Weyermann® Munich Amber Extract produces typical Munich Beers, Maerzen, Festival Beers and Bock Beers 	72 - 79 %	1.35 - 1.40 g / ml	1252 kJ / 100 g	25 - 50	9.9 - 19.3	4 kg 8.8 lbs. Canister	in stock

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	Extract	Specific Gravity (OG)	Energy	EBC (at 13°P)	Lovibond (at 13°P)		
BAMBERG RAUCH (Smoked Beer) <ul style="list-style-type: none"> • smoky, brown, unhopped extract with a high concentration, produced from Weyermann® Smoked Malt (98%) and Weyermann® CARAFA®SPECIAL Type I (2%) • it is produced by a decoction mashing process • the malt extract tastes sweet with a well-balanced aroma of Beech Wood • Weyermann® Bamberg Rauch Extract produces the authentic “Bamberg Rauchbeer” 	72 - 79 %	1.35 - 1.40 g / ml	1252 kJ / 100 g	30 - 90	11.8 - 34.4	4 kg 8.8 lbs. Canister	in stock
MUNICH OCTOBER BEER <ul style="list-style-type: none"> • dark brown, unhopped extract with a high concentration, produced from Weyermann® Vienna Malt (65%), Weyermann® Melanoidin Malt (25%) and Weyermann® CARAMUNICH® Type 2 (10%) • it is produced by a decoction mashing process • Weyermann® Munich October Beer Extract produces the authentic Munich “October Beer” - like in the famous Beer Metropolis Munich 	72 - 79 %	1.35 - 1.40 g / ml	1252 kJ / 100 g	35 - 60	13.6 - 23.1	4 kg 8.8 lbs. Canister	in stock

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	Extract	Specific Gravity (OG)	Energy	EBC (at 13°P)	Lovibond (at 13°P)		
<p>VIENNA RED</p> <ul style="list-style-type: none"> • red brown, unhopped extract with a high concentration, produced from Weyermann® Vienna Malt, Weyermann® Melanoidin Malt and Weyermann® Pilsner Malt • it is produced by a decoction mashing process • the malt extract tastes sweet with a well-balanced malt aroma • Weyermann® Vienna Red Extract produces typical Amber Beers, Red Ales, Maerzen, Alt Beers and Bock Beers 	72 - 79 %	1.35 - 1.40 g / ml	1252 kJ / 100 g	40 - 60	15.5 - 23.1	4 kg 8.8 lbs. Canister	in stock
<p>BAVARIAN DUNKEL</p> <ul style="list-style-type: none"> • dark brown, unhopped extract with a high concentration, produced from Weyermann® Munich Malt Type I, Weyermann® CARAMUNICH® and Weyermann® Pilsner Malt • it is produced by a 2-step decoction mashing process • the malt extract tastes very sweet with a well-balanced malt aroma • Weyermann® Bavarian Dunkel Extract produces typical Bavarian Dunkel, Festival Beers, Schwarz Beers, Dark Bock Beers and Smooth Stouts 	72 - 79 %	1.35 - 1.40 g / ml	1252 kJ / 100 g	65 - 85	25.0 - 32.5	4 kg 8.8 lbs. Canister	in stock

When stored in a dry place within a temperature range of 0 °C to 30 °C (32 °F - 86 °F), there is a minimum shelf life of 18 months if unopened. Once opened, the microbiological stability of the product is no longer the responsibility of the Weyermann® Quality Control and Quality Assurance Department. We would be happy to produce any of our malt extracts in organically certified form upon special order. In addition, we can formulate malt extracts to meet specific customer requirements.

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WEYERMANN® MALT

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Weyermann® Management



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Conversion-Table (EBC-Lovibond)

EBC	Lovibond														
0.0	0.0	10	4.2	30	11.8	50	19.3	70	26.8	90	34.4	110	41.9	130	49.5
0.5	0.6	11	4.6	31	12.1	51	19.7	71	27.2	91	34.8	111	42.3	131	49.8
1.0	0.8	12	5.0	32	12.5	52	20.1	72	27.6	92	35.1	112	42.7	132	50.2
1.5	1.0	13	5.4	33	12.9	53	20.4	73	28.0	93	35.5	113	43.1	133	50.6
2.0	1.2	14	5.7	34	13.3	54	20.8	74	28.3	94	35.9	114	43.4	134	51.0
2.5	1.4	15	6.1	35	13.6	55	21.2	75	28.7	95	36.3	115	43.8	135	51.3
3.0	1.6	16	6.5	36	14.0	56	21.6	76	29.1	96	36.6	116	44.2	136	51.7
3.5	1.8	17	6.9	37	14.4	57	21.9	77	29.5	97	37.0	117	44.6	137	52.1
4.0	2.0	18	7.2	38	14.8	58	22.3	78	29.9	98	37.4	118	44.9	138	52.5
4.5	2.1	19	7.6	39	15.2	59	22.7	79	30.2	99	37.8	119	45.3	139	52.9
5.0	2.3	20	8.0	40	15.5	60	23.1	80	30.6	100	38.2	120	45.7	140	53.2
5.5	2.5	21	8.4	41	15.9	61	23.4	81	31.0	101	38.5	121	46.1	141	53.6
6.0	2.7	22	8.7	42	16.3	62	23.8	82	31.4	102	38.9	122	46.4	142	54.0
6.5	2.9	23	9.1	43	16.7	63	24.2	83	31.7	103	39.3	123	46.8	143	54.4
7.0	3.1	24	9.5	44	17.0	64	24.6	84	32.1	104	39.7	124	47.2	144	54.7
7.5	3.3	25	9.9	45	17.4	65	25.0	85	32.5	105	40.0	125	47.6	145	55.1
8.0	3.5	26	10.3	46	17.8	66	25.3	86	32.9	106	40.4	126	48.0	146	55.5
8.5	3.7	27	10.6	47	18.2	67	25.7	87	33.2	107	40.8	127	48.3	147	55.9
9.0	3.8	28	11.0	48	18.5	68	26.1	88	33.6	108	41.2	128	48.7	148	56.2
9.5	4.0	29	11.4	49	18.9	69	26.5	89	34.0	109	41.5	129	49.1	149	56.6
10	4.2	30	11.8	50	19.3	70	26.8	90	34.4	110	41.9	130	49.5	150	57.0

EBC	Lovibond	EBC	Lovibond	EBC	Lovibond	EBC	Lovibond	EBC	Lovibond	EBC	Lovibond	EBC	Lovibond	EBC	Lovibond
150	57.0	240	90.9	330	124.9	420	158.8	600	226.7	1500	566.0	7900	2978.8	8800	3318.1
160	60.8	250	94.7	340	128.6	430	162.6	700	264.4	1600	603.7	8000	3016.5	8900	3355.8
170	64.5	260	98.5	350	132.4	440	166.3	800	302.1	1700	641.4	8100	3054.2	9000	3393.5
180	68.3	270	102.2	360	136.2	450	170.1	900	339.8	1800	679.1	8200	3091.9	9100	3431.2
190	72.1	280	106.0	370	139.9	460	173.9	1000	377.5	1900	716.8	8300	3129.6	9200	3468.9
200	75.9	290	109.8	380	143.7	470	177.6	1100	415.2	2000	754.5	8400	3167.3	9300	3506.6
210	79.6	300	113.6	390	147.5	480	181.4	1200	452.9	2100	792.2	8500	3205.0	9400	3544.3
220	83.4	310	117.3	400	151.3	490	185.2	1300	490.6	2200	829.9	8600	3242.7	9500	3582.0
230	87.2	320	121.1	410	155.0	500	189.0	1400	528.3	3000	1131.5	8700	3280.4	9600	3619.7

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