

JEAN-PIERRE WYBAUW

Fine chocolates

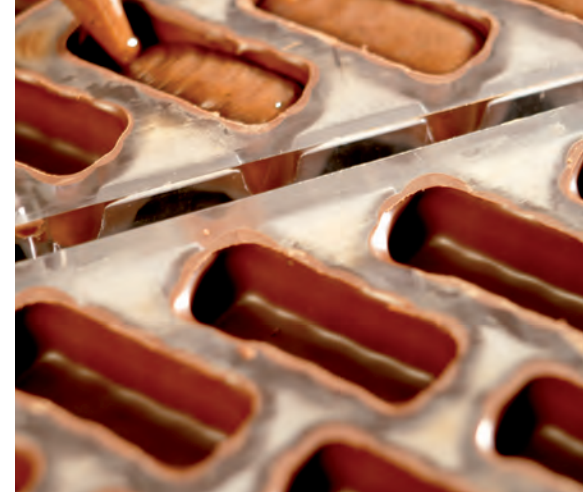
GOLD

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Table of Contents

INTRODUCTION		II. TECHNIQUES AND SPECIALS	
FOREWORD	10	PRALINÉ PASTES AND NUT PRODUCTS	118
A FEW SWEET IMPRESSIONS BY THE WORLD'S GREAT MASTERS	11	MARZIPAN AND PERZIPAN	122
		Marzipan recipes	124
I. THE BASE	14	FONDANT SUGAR DOUGH	127
INGREDIENTS	15	SUGAR COATING	130
ABOUT TASTING	21	CANDYING	133
AROMAS AND FLAVOURS	23	Candied rosettes	135
POTENTIAL FLAVOURINGS: WHAT ARE THEIR PROS AND CONS?	25	Candied fruit-marzipan bonbons	136
FLAVOUR COMBINATIONS	31	CANDYING FRUITS AND VEGETABLES	137
HERBS, SPICES AND FRUITS	33	FRUIT DOUGH	139
FLAVOURS AND TRENDS		FUDGE	143
IN THE USE OF SALT	40	MARSHMALLOWS	146
PRECRYSTALLISING (TEMPERING)	42	Recipes with gelatine as the sole whipping agent	148
GANACHE	54	Recipes with gelatine and egg white as whipping agents	149
SHELF LIFE – WHAT YOU SHOULD KNOW	81	Recipe with gelatine without mechanical aeration	150
IMPROVED SHELF LIFE IN PRACTICE	85	NOUGAT	151
THE USE OF ALCOHOL	89	A few recipes and methods	152
PROCESSING SUGAR	98	LOKUM	155
MISCELLANEOUS TO GET TO WORK YOURSELF	105	CARAMELISING	158
Advocaat or egg liqueur	105	CARAMELS	161
Amaretto-egg liqueur (with honey)	106	Butter caramels	163
Frappé	110	Salted caramel	164
Crystallised flowers to decorate confections	111	Honey caramels	164
Rolled fondant	112	Chocolate caramels	165
Gum paste	113	Chocolate caramels with mint	165
Making your own silk screen foil and metal stencils	115	Nut caramels	166
		Black devils	167
		Caramel bars	168
		CHOCOLATE SPREADS	169
		Recipes	173

CUT PRALINES:	
VARIOUS METHODS TO TURN	
THE GANACHE INTO A SLAB	<i>176</i>
PIPED PRALINES:	
VARIOUS METHODS TO PROVIDE	
THE PRALINES WITH A BASE	<i>178</i>
DIPPING GANACHE PRALINES	<i>180</i>
MISCELLANEOUS	<i>181</i>
Crunchy, tasty sticks	<i>181</i>
Baked marzipan	<i>182</i>
III. RECIPES	<i>183</i>
TRUFFLES	<i>184</i>
TRADITIONAL TRUFFLES	
WITH SHELF LIFE OF	
UP TO THREE MONTHS	<i>186</i>
Aniseed truffles	<i>187</i>
Truffles with anise liqueur	<i>188</i>
Ginger truffles	<i>189</i>
Vanilla truffles	<i>190</i>
Honey truffles	<i>191</i>
Gianduja truffles	<i>191</i>
Coconut truffle	<i>192</i>
Spice truffles	<i>193</i>
Lavender truffles	<i>193</i>
Cinnamon truffle	<i>194</i>
Mitilinis	<i>195</i>
TRADITIONAL TRUFFLES	
WITH SHELF LIFE OF	
APPROXIMATELY SIX TO	
NINE MONTHS	<i>196</i>
Honey caramel truffles	<i>197</i>
Orange truffles	<i>198</i>
Butter truffle with kirsch	<i>199</i>
Coffee caramel truffles	<i>200</i>
Praliné truffles	<i>201</i>
Coffee truffle	<i>202</i>
HOLLOW BULLETS	
WITH SHELF LIFE OF	
APPROXIMATELY THREE WEEKS	<i>203</i>
Champagne truffles	<i>204</i>
Beer ganache 1	<i>205</i>
Beer ganache 2	<i>206</i>
Beer caramel	<i>207</i>
A few traditional recipes	<i>208</i>
Baileys truffles	<i>211</i>
Bitter and vanilla	<i>212</i>
Egg liqueur truffles	<i>213</i>
Ganache-Cointreau cream	<i>214</i>
HOLLOW BULLETS	
WITH SHELF LIFE OF	
MAXIMUM THREE MONTHS	<i>215</i>
Wine truffles	<i>216</i>
Mint ganache truffles	<i>217</i>
Matcha truffles	<i>218</i>
Masticha truffles	<i>219</i>
Chestnut truffles	<i>220</i>
Kirsch truffles	<i>221</i>
White and dark	<i>222</i>
HOLLOW BULLETS	
WITH SHELF LIFE OF	
APPROXIMATELY SIX TO	
NINE MONTHS	<i>223</i>
Caramel truffles	<i>224</i>
Apricot-basil truffels	<i>225</i>
Pistachio truffles	<i>226</i>
Cranberry caramel	<i>227</i>
Truffles with raspberry puree	<i>228</i>
Rabarbertruffles	<i>229</i>
Cardamomolive oil-honey truffles	<i>230</i>
Lime-wasabi truffles	<i>231</i>
Marc de Champagne truffles	<i>232</i>
Strawberries-ginger truffles	<i>233</i>
Banana with Earl Grey truffles	<i>234</i>



CUVETTES (CUPS)	235	Marzipan ganache	270
Extra bitter	236	Sereh	271
Lime ganache	237	Almond praliné with cinnamon	272
Apricot	238	Sesame praliné	273
Orange ganache	239	Praliné cream	274
Praliné-lemon ganache	240	Pear and orange combo	275
Oriental	241	Almond with coffee	276
Bitter and rum	242	Honey praliné cream	277
Exotic	243	Almond chocolates	278
Caramel with orange	244	Lemon	279
Almond-kirsch praliné	245	Pistachio gianduja	280
Coriander	246	Almond tuiles	281
Praliné	247	Dulce de leche	282
Egg liqueur	248	Coconut and crispy	283
Caramel	249	Pistachio with cardamom ganache	284
Rum cream	249	Feuilletine	285
Anise cream	250	Butter praliné	286
Caramel snobinette	251	Gianduja ganache	287
		Muesli bars	288
GANACHE AS A BASIC CREAM	252	Passion	289
Piped nuts	254	Crispy	290
Coffee delight	255	Pistachio ganache	291
Hazelnut rosette	256	Pistachio cubes	292
Orange slices	257	Nutty	293
Marzipan crunch	258	Nibs & Nuts	294
Marquise	259	Lavender sandwich	295
		Praliné with passion fruit	296
CONFECTIONS WITH		Almond caramel	297
THE ADDITION OF		Coffee gianduja	298
MISCELLANEOUS NUTS	260	Cocktail	299
Almond cream	260	Lemon ganache with	
Cinnamon and pistachio	261	orange blossom marzipan	300
Coconut Delight	262	Violette	301
Honey and cinnamon delight	263	Amandine	302
Ganache with nutmeg praliné	264	Pistachio ganache	304
Cardamom and pistachio ganache	265	Almond ganache	305
<i>Speculaas</i> cream	266	Pistachio gianduja sandwich	306
Raspberry praliné	267	Orange Crumby	307
Praliné ganache	268	Lime tea	308
Lime-and-pistachio ganache	269	Pear ganache with almond praliné	309



Pistachio and bitter	310
Praliné with coriander	311
Passion	312
Gianduja ganache with pistachio	313
Pear and orange combo	314

ALCOHOL-BASED

CONFECTIONS	315
Pistachio cubes	315
Aknot	316
Pistachio marzipan with whisky	317
<i>Advocaat</i> cream	318
Arabe	319
<i>Advocaat</i> cream	320
Marco	321
Wine cream	322
Al vino	323
Spring	324
Cherry	325
Prune ganache	326
Toscana	327
Apricot and coconut	328
Tea ganache	329
Sunny	330
Caramel with coconut	331
Blackcurrant ganache	332
Lavender	333
Chestnut log	334
Cognac ganache	335
Rum cream	336
Tropicana	337
Kahlua	338
Port	339
Hellas	340
Lime with wodka	341
Orange blossom	342
Cream of raisins in cognac	343
Cream with rum	344
Popping feeling	345
Coconut	346

Amaretto	347
Lavender and anise	348
Cappuccino	349
Anisette	350
Orange with coriander	351
Whisky ganache	352
Tropical	353
Orange bitters	354
Pistachio praliné ganache	355
Peach cocktail	356
Anise caramel	357
Heaven	358
Calypso	359
Margarita	360
Lime	361

CONFECTIONS – MOULDED, PIPED AND CUT

Palet d'or	362
Coconut	365
Passion fruit ganache	366
Fresh mint and lime	367
Red currant ganache with saffron	368
Tea time	369
Vanilla	370
Lavender	371
Red berries	372
Salted caramel galette	373
Mocha ganache	374
Coffee ganache	375
Orangina	376
Forest	377
Mango with saffron	378
Banana	379
Rhubarb	380
Fruity	381
Fruity caramel ganache	382
Equador	383
Mystère	384
Egg ganache with orange	385



Bitter and fruit	386
Raspberry ganache	387
Honey with balsamic vinegar	388
Passion fruit with a hint of mint	389
Pure Orange	390
Lemon grass	391
Cherry	392
Orange ganache with almonds	393
Vanilla ganache with raspberry coulis	394
Ginger	395
Freshy with mint	396
Honey ganache with cinnamon	397
Mastika	398
Minty	399
Antalya	400
Asia	401
Espresso	402
Africa	403
Relief palette	404
Spring freshness	405
Banana in coconut milk	406
Caramelised Banana	407
Ginger and lime	408
Cream ganache with basil	409
Anise and honey ganache	410
Early grey ganache	411
Coffee	412
Panache	413
Saffron 1	414
Saffron 2	415
Cardamom	416
Rio	417
Pacific	418
Lava	419
Cappuccino	420

CONFECTIONS – MOULDED, PIPED AND CUT WITH SHELF

LIFE OF AT LEAST SIX MONTHS	421
Caraibe	421
Raspberry-coriander caramel	422
Cassis	423
Blueberry combo	424
Vanilla and raspberries	425
Fruity chestnut	426
Lemon and mint ganache	427
Apricot	428
Soft creamy fruit dough	428
Blueberry	430
Coconut with blueberries	431
Passion sticks	432
Raspberry ganache	433
Caramel and banana combo	434
Strawberry and cinnamon combo	435
Orange-jasmine caramel	436
Cocktail with coconut	437
Raspberry ganache with saffron	438
Pineapple	439
Matcha	440
Vanilla	441
Green tea	442
Tonka beans	443
Mushrooms	444
Sea shells	445
Liquorice	446
Jasmine	447
Hot sticks	448
Cardamom with olive oil	449
Coffee ganache	450
Mocha	451
Guava	452
Honey ganache with anise	453
Orient	454



IV. TECHNICAL FOR ADVANCED PROFESSIONALS

	<i>455</i>
PRECRYSTALLISING FROM A TECHNICAL POINT OF VIEW	<i>456</i>
ARE CHOCOLATE PRODUCTS TRULY FINISHED IF THE CHOCOLATE HAS BEEN DULY CRYSTALLISED?	<i>458</i>
AVERAGE NUTRITIONAL VALUE OF CHOCOLATE	<i>460</i>
RHEOLOGY	<i>462</i>
EVALUATING CHOCOLATE	<i>466</i>
FATS	<i>469</i>
FAT IMITATORS	<i>474</i>
EMULSIFIERS	<i>476</i>
DIETARY FIBRE AND WHIPPING AGENTS	<i>480</i>
COLLOIDS	<i>482</i>
SUGARS	<i>490</i>
CARAMELISING	<i>503</i>
SHELF LIFE	<i>505</i>
ATTRACTIVE PACKAGING SOMETIMES CONTRIBUTES TO THE ISSUE!	<i>516</i>

V. APPENDICES

	<i>519</i>
GLOSSARY	<i>520</i>
ANSWERS TO A NUMBER OF FREQUENTLY ASKED QUESTIONS	<i>533</i>
RECIPE INDEX	<i>535</i>

PREFACE

It was more than 15 years ago that the first book in the 'Fine Chocolates' series was published: its ambition was to be a functional and practical specialist book for beginners as well as experienced professional chocolatiers. In subsequent years, three new titles appeared in the same series, each one inspired by fresh insights into a rapidly evolving world. Due to new knowledge about ingredients, changing market demands and new production methods I felt the need to complement, elaborate or improve the content of the first book. Consequently, ganaches, shelf life and recipe creation were successively and extensively discussed.

As a matter of fact, fifteen years later I go back to where it all started at the time, the ambition to bundle all the available knowledge related to working with chocolate into a practical and functional specialist book for professionals. In doing so I have made a careful selection from previously published chapters. In the reworking process, I have also tried to take into account all feedback, reactions and questions received over the years. Due to the many improvements and adjustments it has eventually become a new book rather than a compilation or updated snapshot of the knowledge and skills I originally wanted to share with today's professionals.

Fine Chocolates Gold consists of three parts. In Part I the basic principles related to working with chocolate are discussed. Part II is centred around recipes. In addition to older recipes – which have all been reworked and improved – this part also features numerous new recipes. Each recipe also lists the AW value as an important indicator for shelf life. Lastly, Part III, takes a closer look at the



theoretical and scientific aspects of the processes that are important when processing chocolate.

I not only hope that everyone will enjoy reading the book, but also that everyone will have loads of fun while working with and tasting the most delicious of delicacies that is chocolate.

May 2016

Jean-Pierre Wybauw

A FEW SWEET IMPRESSIONS BY THE WORLD'S GREAT MASTERS

'Jean-Pierre Wybauw is one of those personalities we would like to meet more often in the chocolate industry. Not only is he a mine of information on all things chocolate, he is also a very kind hearted man, always available and willing to share his knowledge. He is admired by an entire generation of apprentice chocolatiers.

He is a true enthusiast, whose in-depth knowledge of the trade is matched by a passion to communicate this know-how to as many people as possible. His current work promises to be a benchmark for the future.

To those who meet him, Jean-Pierre manages to convey his great love of chocolate as an object of sweetness, his fondness for food and his ebullient and dynamic nature – the very essence of his profession as a chocolatier.

At the time of our last meeting I was a mere adolescent and his impressive chocolate sculpture displays at "Euroba" will be forever engraved upon my memory and were the inspiration of my vocation as a chocolatier. His chocolate sculptures are delicate and fleeting masterpieces, expressions of art based on sweetness and contrasts, admired by amateurs and professionals alike.

During our meetings Jean-Pierre introduced me to the brotherhood of which he was a product, the Richmond Club of Belgium whose members included the elite of Belgian patissiers. These individuals, whom I longed to emulate, not only provided a range of extraordinary know-how but also presented a noble and passionate vision of the trade. This was based on continually evolving creativity and respect for the artisan's craft – something I still defend with the same gusto to this day.

Jean-Pierre Wybauw is much more than a mere representative of this elite. He is, most definitely, a figurehead since his talent and love of the profession continue to be an example for new generations of chocolatiers, keen to learn and discover the alchemic secrets of this wonderful trade. Because of his modesty, listening skills and accessibility for young up and coming talent, Jean-Pierre Wybauw could be considered an open book on the profession of chocolatier.

I feel it an honour to be able to express my gratitude and admiration today to a man whose dynamic nature has introduced me to the magic of chocolate, its technical secrets and expressive power. I hope that readers of this book will gain as much pleasure from browsing through its pages as I had discovering the many facets of Jean-Pierre Wybauw's personality.'

Pierre Marcolini
MASTER CHOCOLATIER, BELGIUM

'Dear Jean Pierre!

It is a great honour for me to be able to dedicate these lines to you in your new project. I wish you loads of success and hope you are already working on your next book that will continue to educate and inspire new generations of chocolatiers.

Congratulations Mr Chocolate!'

Ramon Morató Parés
BARCELONA, SPAIN





‘Jean Pierre Wybauw is one of the world’s greatest chocolate specialists, in the knowledge of material, production and the way of treating it, as well as in the diversity of the chocolate and its application techniques. His knowledge on the subject is no less than impressive and all his publications on chocolate to date fully support this statement. This new volume of *Fine Chocolates* only confirms this rare and unique knowledge of chocolate acquired over the years. In it, Jean-Pierre Wybauw remarkably puts into practice his technical and creative background, with at the same time, an in-depth look at flavours and flavour associations. I am delighted to be able to show my admiration in this preface and hope that he will continue on this path of excellence that he mapped out, as required by our profession.’

Pierre Hermé
PARIS

‘At the end of November 2003 Jean-Pierre mentioned to me that he was finally going to write his own book, an idea that had occurred to him many years before. I knew straight away that this was not going to be just another book, one of the many already dedicated to chocolate. Those of us who know him, and his struggles between various exhibitions, are also familiar with his knowledge, composure and professionalism, which are equalled by his passion for his vocation.

Specialisation, perspective, technique, functionality and rationality in particular (all qualities that define him as a person) must have been on his mind even before he had written his first word. As you will see it is an inexhaustible source of ideas and will be appreciated by those who, like me, are looking for something more than just recipes in a book.’

Albert Adrià
SPAIN

‘In *Fine Chocolates*, Chef Jean-Pierre Wybauw not only provides his readers with recipes, he also shares the concepts, techniques, and technical knowledge they need to create unique chocolates of their own. It is a book unlike any other that makes the unlimited world of chocolate confectionery accessible to his international audience.’

Sébastien Canonne
MOF THE FRENCH PASTRY SCHOOL

‘Thank you, Jean-Pierre Wybauw, for sharing more of your endless knowledge and unchallenged skills. You have once again enriched the art of confectionery for thousands of professionals and enthusiasts alike all over the world. This new edition effectively documents how to use flavours, enhance and combine them, and most importantly, how to create individually characteristic chocolates. It is like bringing colour and light into darkness! This book truly is an indispensable companion to your previous copies, which will never collect dust.’

Ewald Notter
USA

‘Finally, a book about chocolate that is an indispensable tool for all chocolatiers, both beginners and professionals. While working with chocolate seems fun and easy, an in-depth knowledge of the chemistry of chocolate is essential to achieve a consistent, smooth and delectable product. The composition of raw products is explained so that you will be able to formulate your own chocolate candy recipes. This chocolate bible provides the answers to all your possible troubleshooting questions.’

Chef Jacquy Pfeiffer
THE FRENCH PASTRY SCHOOL



'This book is an excellent tool and guide for all enthusiasts who want to work with the splendid substance that is chocolate. It is also an accomplished masterpiece as a record of Jean-Pierre's entire career – the career of a discrete, humble and passionate professional. I hope this book will help its many readers to find solutions to the countless questions they are likely to encounter along their professional paths.

I can only recommend that those who love to work with chocolate consult it regularly and would like to send my heartfelt congratulations to its author.'

Marc Debailleul
MOF FRANCE

'At last a book that professional chocolatiers can call their own. Jean-Pierre Wybauw, otherwise known as Mr. Chocolate, has come through with the ultimate text on chocolate. I find myself very fortunate being able to scan through the pages of Mr. Wybauw's life long experience. With each page comes a wealth of information from the basics of chocolate to the in depth interactions of ingredients within a ganache. The photos are stunning and the information is laid out in a clear, concise manner. This is one of the few books that will remain at my bedside and upon my work bench.'

Thomas Gumpel
USA

'Finally, a book that is both attractive and technical...an indispensable tool to help professionals understand and master the complexity of chocolate. Jean-Pierre shares his passion and the knowledge of a long career. I highly recommend it!'

Jacques Torres
NEW YORK

'Dear colleagues,

It is a great honour for me to preface this new book by Jean-Pierre Wybauw. Jean-Pierre, to me is 'Mr Chocolate', a true globe-trotter who never tires of sharing his passion and knowledge. A true walking encyclopaedia on chocolate, Jean-Pierre has contributed significantly to the world of modern chocolate-making. Our amazing profession of Pâtissier/Chocolatier needs distinguished professionals like him to continue to exist and progress. Thank you Jean-Pierre for your work. I wish you lots of well-deserved success for this new book, which undoubtedly will not fail to give rise to new callings among our young professionals.

With all of my gourmet friendship.'

Chef Stéphane Glacier
MOF FRANCE

'Chocolate has been inspiring the world for hundreds of years. It is among the luxury foods that speak most to the imagination. For some the passion for chocolate is so strong that they make it their profession.

Jean-Pierre Wybauw is such a professional, who seems to have liquid chocolate rather than blood running through his veins. The man embodies chocolate!

During the National and World Party Team Championship in the US, I got to know Jean-Pierre as a modest, quiet professional who prefers giving to receiving. This wonderful book is a good example of this.

The best way to thank Jean-Pierre for all his knowledge and energy is by using and consulting his book extensively. If the pages are "soiled and thumbbed" by chocolate fingers after some time, it will be the silent testimony to this book's value.

Jean-Pierre, congrats and thank you!'

Rudolph van Veen
THE NETHERLANDS

I The base

INGREDIENTS 15 / ABOUT TASTING 21 / AROMAS AND FLAVOURS 23 / POTENTIAL FLAVOURINGS 25 /
FLAVOUR COMBINATIONS 31 / HERBS, SPICES AND FRUITS 33 / FLAVOURS AND TRENDS IN THE USE OF SALT 40 /
PRECRYSTALLISING 42 / GANACHE 54 / SHELF LIFE 81 / IMPROVED SHELF LIFE IN PRACTICE 85 /
THE USE OF ALCOHOL IN RECIPES 89 / PROCESSING SUGAR 98 / MISCELLANEOUS TO GET STARTED ON YOUR OWN 105



INGREDIENTS

Each ingredient has its own specific characteristics. Some ingredients protect the recipe against drying or extend its shelf life.

When various ingredients are combined in a recipe, some blend well but others, such as fats and water, do not.

Recipe creators should understand the characteristics of their ingredients and ensure that the recipes are based on a 'good marriage'.

Cacao ingredients

Chocolate

Chocolate is a dispersion of fine particles of solids (cocoa, sugar and milk powder) in cocoa butter. The term 'chocolate' must meet legal requirements, but almost all countries have their own standards for chocolate. Furthermore, international standards are laid down by the Food and Agricultural Organisation of the United Nations (FAO) and the World Health Organisation (WHO) in the Codex Alimentarius. That is why it is not relevant to give figures. Roughly speaking all dark chocolates contain at least 30-35% cocoa components, and at least 18% cocoa butter. A quality reference contains at least 26% cocoa butter. Chocolate coating at least 31%. Milk chocolate contains 20-25% cocoa components.

Milk chocolate also contains milk fat, i.e. the total of cocoa butter and milk fat. This is why household milk chocolate should contain a total of at least 25% fat. Milk chocolate coating a total of at least 31% fat. White chocolate contains at least 20% cocoa butter and 12-14% milk components.



Because of the high cocoa/butter ratio the name 'couverture' refers to quality aspects that result in:

- Better melting in the mouth.
- More pleasant and richer experience (not as dry).
- Better snap.
- Higher degree of liquidity upon processing.
- Higher cost price.

When putting together recipes in which chocolate is processed, some factors need to be taken into account.

FOR DARK CHOCOLATE

- Dry cocoa components give the (bitter) chocolate taste and colour.
- The sugar in the chocolate makes the recipe sweeter.
- The cocoa butter determines the firmness of the centre.



FOR MILK CHOCOLATE

- Dry cocoa components give the chocolate flavour.
- The sugar makes the recipe sweeter than when using dark chocolate, since the strong and bitter cocoa taste is significantly toned down by the high milk content.
- Milk fats influence the structure: they create a smooth effect, since milk fat is much smoother than cocoa butter.
- The behaviour of cocoa butter is very much influenced by the blending of various fats.

FOR WHITE CHOCOLATE

- Sugar determines the sweetness of the recipe.
- Milk powders create a full, creamy flavour.
- The combination of cocoa butter and milk fat give a smooth effect.
- The behaviour of cocoa butter is very much influenced by the blending of various fats.

Consequently, the choice of chocolate is not the only important factor, the amount of cocoa butter the chocolate contains is also significant.

The chocolate not only acts as a flavouring but, more importantly, determines the texture. Because of its high cocoa butter content it is best to use high-fat chocolate (couverture). For a high quality ganache a total fat content of approximately 40% is recommended. This is why cream is used as a liquid in most ganaches, although other liquids, such as infusions, coffee and liqueurs may also be used. In these cases the fat content must be complemented by adding butter or a vegetable fat.

FOR EXAMPLE

- Hazelnuts contain approximately 64% oil
- Standard dark chocolate contains approximately 35% cocoa butter
- Standard milk chocolate contains approximately 30% cocoa butter
- Standard white chocolate contains approximately 28% cocoa butter
- Praliné paste contains 50% sugar and 50% hazelnuts

1000 g praliné mixed with 500 g dark chocolate containing approximately 35% cocoa butter has an attractive soft yet sliceable texture. 320 g nut oil was mixed with 175 g cocoa butter.

With the use of 30% milk chocolate the butter fat contained in this chocolate is taken into account. In order to obtain the same texture as with dark chocolate 60% milk chocolate must now be added to 1000 g praliné. When using white chocolate 70% chocolate is added to 1000 g praliné.

Nibs

Nibs are cleaned cocoa beans, free from bacteria, roasted and chopped into fragments. They have a strong taste and add flavour and aroma to centres. They are used in centres to give a crunchy effect and give sweet centres a bittersweet balance. They are also used for finishing.

Cacao mass or cacao liqueur

100% cleaned cocoa beans, free from bacteria, roasted, broken and then finely ground. Since cocoa beans are very rich in cocoa butter (approx. 55%) a very liquid, dark brown, bitter and somewhat sour paste is obtained after grinding. An ideal product to give a strong cocoa flavour to centres, with little influence on texture.

Cacao butter

Cocoa butter is a product of the cocoa bean, which can contain up to 55% cocoa butter. Taste, odour, solidifying behaviour and hardness can differ, depending on origin. This is how the taste can vary from no cocoa taste (neutral) to palpable cocoa taste and how Malay cocoa butter is noticeably harder than Brazilian butter.

Cocoa butter gives gloss, hardness and shrinkage to the chocolate. The higher the cocoa butter content in the chocolate, the more attractive the appearance of the end product. When producing pralines cocoa butter is used to:

- dilute the chocolate (for extra thin cover or spraying with airbrush);
- harden centres, without making them sweeter (as by adding chocolate);
- mix with fat soluble colouring agents (to colour chocolate);
- protect marzipan against drying out (by covering with thin coat of cocoa butter).

Cocoa powder

Cocoa powder is the (partially) dry substance that remains after separating cocoa butter from the cocoa mass. Cocoa powder is used for its taste as well as its colour. There is a difference between:

- Low fat cocoa powder (contains approximately 10-12% cocoa butter).
- Whole cocoa powder (contains approximately 20-22% cocoa butter). American terminology differs from British terminology.
- Alkalised cocoa powder (alkalising means making alkaline or neutralising sour taste). Alkalising darkens the cocoa powder and makes it more easily soluble in a watery environment.
- Non-alkalised cocoa powder (makes creams or ganaches curdle more rapidly).



Sugars

Sucrose (sugar)

Sucrose has a strong sweetening power of 100 and provides a firm texture. It extends shelf life, but has the property to crystallise (granulate) during oversaturation. It also lowers the A_w value. Sucrose is not soluble in alcohol. Since it is a cheap ingredient, it lowers the cost price of the product. When caramelised it imparts aroma and colour.

Glucose syrup

Glucose syrup is a watery solution consisting of several sugars: glucose (dextrose), maltose, triose and higher sugars. From a chemical point of view, glucose is dextrose, but in everyday language it is referred to as glucose syrup. It has the property of

inhibiting and slowing down the crystallisation of sugars. Glucose lowers the A_w value and imparts aroma and colour when heated. Most frequently used is glucose of:

- 43° Baumé = 80% dry substance
- 45° Baumé = 85% dry substance

Invert sugar (sometimes referred to as Trimoline in everyday language)

Invert sugar has a sweetening power of 125. Invert sugar contains 50% dextrose + 50% fructose (on dry substance). It has the property of inhibiting crystallisation and lowers the A_w value if not heated above 70°C (158°F). Invert sugar works hygroscopically and is a desirable ingredient in items with high water content, which must remain soft during storage. Any excess can nonetheless lead to stickiness and syrup separation. Up to 25% will typically yield a good result. When heated it imparts aroma and colour.

Sorbitol (E420)

Sorbitol has a sweetening power of 50. The dosage is 5 to 10%. Its use is regulated in some countries.

Sorbitol comes in two forms: powder and concentrated (70% dry substance). It has the property of inhibiting crystallisation and has a preserving and stabilising effect. Sorbitol also lowers the A_w value and works hygroscopically. Sorbitol is a limited moisture stabiliser, which prevents drying. It has a cooling effect on the tongue. This sweetener tolerates high temperatures, but discolouration occurs (brown) between 150 and 70°C (302–338°F). Sorbitol is highly stable for acids, enzymes and temperatures to 140°C (248°F).



Dairy products

Cream

Cream is a fat emulsion in water. Cream has a fat content from 30% to 40% and consists of approximately 60% to 70% water. The average composition for 100 g cream is: 57.71 g water, 2.05 g egg whites and 37 g butter fat. The remainder is made up of carbohydrates.

Its high water content gives cream mixtures an airy, smooth texture, but also results in a fairly short shelf life of approximately one week. Combined with the correct ingredients shelf life can be considerably extended. However, combined with the incorrect ingredients the texture changes after a short period (drying, recrystallising, moisturising).

For creating crèmes in this book, cream with a 40% fat content is typically used.

Milk powder

Milk powder gives milk chocolate and white chocolate as well as centres a specific flavour. It is prepared by removing water from the milk until only dry substances remain. This takes place by thickening (condensing), after which the result is *spray-dried* or dried on heated rollers, also referred to as *hatmaker drying*). Spray-dried milk powder is preferable as it dissolves more easily and is finer.

Whole milk powder contains maximum 5% water, at least 25–30% fat and 70% fat-free dry milk components. The average composition of whole milk powder per 100 g is: 2.47 g water, 26.32 g egg whites, 26.71 g butter fat, 6.08 g ash and 38.42 g carbohydrates (sugars). Low-fat milk powder contains a maximum of 5% water and minimum of 95% fat-free dry milk components. The average composition of low-fat milk powder per 100 g is: 3.16 g water, 36.16 g egg whites, 0.77 g butter fat, 7.93 g ash and 51.98 g carbohydrates (sugars).

Milk crumb

Crumb is produced in accordance with a special drying process whereby sugar and potentially cocoa mass is added to the milk. This is generally condensed and dried in a vacuum oven condensed and dried, which results in a strong Mail-

lard reaction and leads to a very fine caramel-like and creamy aroma. *Crumb* composition varies from company to company. A global composition is 53% to 58% sugar(s) and 32% to 38% milk components, 5% to 14% cocoa mass. *Crumb* has a high milk fat content.

Blok milk

Blok milk powder is version of crumb. It consists of condensed milk in which sugar is dissolved and that is dried and ground under low pressure. It is made up of 50% milk and 50% sugar. By drying under low pressure the whole milk flavour remains.



Aw: 0.84

Aniseed truffles

RECIPE	%
350 g cream 35%	27.56
40 g glucose	3.15
80g honey	6.30
130 g butter	10.24
630 g dark chocolate	49.61
40 g anise-flavoured liqueur (such as raki or ouzo)	3.15

Batch size: 1270 g

METHOD

- Bring the cream, glucose and honey to the boil.
- Cover and leave to cool to approximately 30°C (85°F).
- Soften the butter in a mixer (KitchenAid) and add the cream mixture while stirring.
- Fold in the precrystallised chocolate and blend into a homogeneous, smooth mass.
- Lastly, stir in the liqueur.

FINISHING TOUCH

- Pipe your choice of oval or spherical truffles onto a Silpat mat or fat-free paper. To do so use a 8-mm smooth tip.
- Leave to crystallise in the refrigerator for a few hours.
- Dip in dark or milk chocolate and roll in the decoration of your choice.

YIELD
approximately 200



Aw: 0.82

Praliné ganache

RECIPE

500 g cream
100 g glucose
500 g praliné (50/50)
300 g milk chocolate
100 g dark chocolate
black pepper, as needed
Batch size: 1490 g

%

33.33
6.67
33.33
20.00
6.67

METHOD

- Combine the praliné with the chocolate. Bring the cream, the glucose and potentially the pepper, to the boil and pour over the chocolate drops. Allow the mixture to cool.
- Fill the moulds and allow the chocolate to harden. Pipe centres into the chocolate shells using a smooth decorating tip. Allow to slightly crust. Seal the shells with chocolate.

YIELD

approximately 235



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