

Carpenter CTS™ Alloys

Knife, Blade, and Other Fine-Edge Applications



The Carpenter CTS family of alloys offers superior edge retention and surface finish, the ability to be machined to a fine edge, and consistent heat-treatability from lot to lot. These specialty alloys can be considered for a variety of knife, blade and other fine-edge applications including:

Applications to consider:

- Sport/hunting knives
- Textile
- Military/defense
- Packaging
- Law enforcement
- Recycling/refuse
- Kitchen knives
- Hand tools
- Salon blades
- Scissors/shears
- Surgical/medical
- Shaving razors
- Commercial food processing
- Ice skates
- Paper processing

Carpenter manufactures specialty alloys to customer requirements using stringent quality control from melting through shipment. CTS alloys are available in a variety of sizes in coil or cut-length strip form.

Benefits:

- Superior edge retention
- Machinable to a fine edge
- Consistent heat-treatability lot to lot
- Technical expertise
- Made in the USA



Carpenter is a world recognized developer and manufacturer of cast wrought and powder metallurgy specialty alloys including stainless steels, high-strength alloys, superalloys, and tool and steel as well as titanium alloys.

Visit us at [www.cartech.com](http://www.carttech.com)

A team of metallurgists and product application experts stand ready to assist you with alloy selection and technical support.

Carpenter CTS™ Family of Cutting Blade Materials

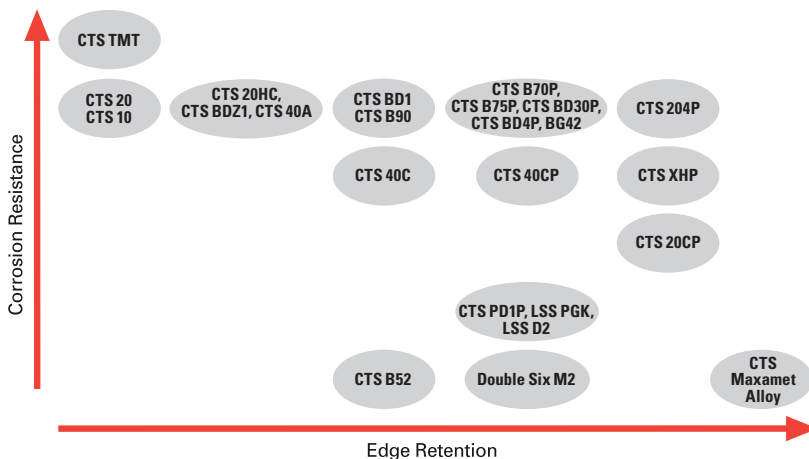
CTS Alloys	Carbon	Chromium	Manganese	Molybdenum	Silicon	Vanadium	Other
CTS 10	0.1	12	0.5	0.4	0.3	—	—
CTS TMT	0.25	13.5	0.5	2	0.5	—	Cu 2.5
CTS 20	0.35	13.5	0.5	0.4	0.3	—	—
CTS 20LC	0.2	13.5	0.4	0.5	0.3	—	—
CTS 20HC	0.5	13.5	0.4	0.5	0.3	—	—
CTS BDZ1	0.67	13	0.6	0.5	0.01	—	—
CTS 40A	0.7	17	0.5	0.5	0.5	—	—
CTS B90	0.9	18	0.5	1.1	0.4	0.5	—
CTS BD1	0.9	15.5	0.6	0.3	0.3	0.1	—
CTS BDZ2	1	13	0.6	0.5	0.01	—	—
CTS 40C	1	17	0.5	0.5	0.7	—	—
CTS 40CP	1	17	0.5	0.5	0.7	—	—
CTS B75P	1.1	14.5	0.5	4	0.3	1.2	—
CTS B70P	1.1	14	0.5	2	0.3	1	Nb 0.3
CTS BD4P	1	14	0.5	4	0.2	0.1	W 0.1
CTS BD30P	1.5	14	0.5	2	0.3	4	—
CTS XHP	1.6	16	0.5	0.8	0.4	0.4	Ni 0.3
CTS 204P	1.9	20	0.3	1	0.7	4	W 0.5
CTS 20CP	2.2	13	0.5	1.2	1	9	Ni 0.2

Single figures are nominal.

A Selectaloy® tool is also available to help with selecting Carpenter CTS alloys and Carpenter's Latrobe Specialty Metals materials.

Carpenter CTS™ Stainless and LSS™ Alloys

Selectaloy Diagram



Detailed, searchable alloy data is available in the Alloy TechZone™ at www.cartech.com.

Visit us at www.cartech.com



Contact:

For order quantities, pricing and delivery information:

Carpenter Technology Corporation

USA

TF: 800-654-6543
Tel: 610-208-2000

Europe

Belgium
Tel: +32-10-686-010
England
Tel: +44-1527-512200

Mexico and South America

Tel: (52) 44-22-42-09-46

Canada

TF: 800-268-4740

Asia

Singapore
Tel: 65-6738-2401

People's Republic of China
TF: +86-021-2411-3500

联系人

宋全明博士
电话: +86-021-2411-3500
卡彭特 (上海) 贸易有限公司

The information and data presented herein are typical or average values and are not a guarantee of maximum or minimum values. Applications specifically suggested for material described herein are made solely for the purpose of illustration to enable the reader to make his/her own evaluation and are not intended as warranties, either express or implied, of fitness for these or other purposes.

© Copyright 2012 CRS Holdings, Inc. All rights reserved.