

Kennametal Carbide Grade Chart - Free Sample

Every ISO P and M turning position Kennametal grades hold, free — one brand, no card required.

55 grades across 96 positioning records

Edition: Kennametal only, free sample

Free Sample, September 2026

Date: 2026-09-11

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What This Is, and What It Is Not

A positioning row means: the manufacturer positions this grade at this ISO application class. It does **not** mean two grades listed at the same class are interchangeable. Substrate, coating, edge preparation, and the recommended cutting window still differ between manufacturers, even when the ISO application class matches.

A positioning record is one grade at one ISO application class — a grade that spans several classes contributes several records. This edition has 583 distinct grades across 1,075 ISO positioning records; the difference is range, not duplication.

A cross-referenced pair means: the pairing appears in two or more published cross-reference charts from tooling manufacturers, with no conflicting source found during review. It is a starting point for a process trial — not a guarantee of matching performance.

These charts are published by the manufacturers themselves (for example Ingersoll, Tungaloy) — not by an independent testing body, and manufacturers have a commercial interest in how their own grades are cross-referenced against competitors' grades. That commercial interest is exactly why a process trial is still required before any substitution.

Sources, defined

Every cross-referenced pair carries a **source count**: the number of published cross-reference charts the pairing was found in, with no conflicting chart found during review. It is a count of charts, not a judgment of how independent, reliable, or in agreement those charts are with each other. 123 pairs in this edition, by source count:

SOURCES	PAIRS
2	97
3	26

Verification tier, defined

- TIER 1** — the manufacturer's own published positioning for this grade.
- TIER 2** — positioning corroborated by 2 or more published manufacturer sources.

Before you substitute

Any substitution drawn from this chart — whether from a shared ISO application class or from a cross-referenced pair — must be validated with a process trial before it is used in production. This document narrows the search for a starting grade. It does not replace the trial.

GRADE	COATED	VERIFICATION TIER
KC510M	—	TIER 1
KCP05	Yes	TIER 2
KCP05B	Yes	TIER 1
KT1120	—	TIER 1

GRADE	COATED	VERIFICATION TIER
HTX	—	TIER 1
KC515M	—	TIER 2
KC522M	—	TIER 2
KC9110	—	TIER 2
KCP10	Yes	TIER 2
KCP10B	Yes	TIER 2
KCPM20	Yes	TIER 2
KCS10	Yes	TIER 1
KCU10	—	TIER 2
KT1120	—	TIER 1
KT125	—	TIER 1
KT315	—	TIER 1

GRADE	COATED	VERIFICATION TIER
KC5010	Yes	TIER 1
KC9110	Yes	TIER 1
KCP10	Yes	TIER 1

GRADE	COATED	VERIFICATION TIER
K125M	No	TIER 2
KC525M	—	TIER 2
KC5525	—	TIER 1
KC9125	—	TIER 2
KCP25	Yes	TIER 2
KCP25B	Yes	TIER 2
KCP25C	Yes	TIER 1
KCPK30	Yes	TIER 2
KCSM30	—	TIER 1
KCU25	—	TIER 2
KSPM20	Yes	TIER 1
KT1120	—	TIER 1
KT175	—	TIER 1
KT315	Yes	TIER 1
KT325	—	TIER 1
KT5020	Yes	TIER 2

GRADE	COATED	VERIFICATION TIER
KC5025	Yes	TIER 1
KC9125	Yes	TIER 1
KCP25B	Yes	TIER 1
KCP25C	Yes	TIER 1
KCU25	Yes	TIER 1

GRADE	COATED	VERIFICATION TIER
KC525M	—	TIER 2
KC530M	—	TIER 2
KC735M	—	TIER 2
KC8050	—	TIER 2
KCP30	Yes	TIER 2
KCP30B	Yes	TIER 2
KCP35	—	TIER 2
KCP40	Yes	TIER 1
KCP40B	Yes	TIER 1
KCPK30	Yes	TIER 2
KCPM30	Yes	TIER 2
KCPM40	—	TIER 2

GRADE	COATED	VERIFICATION TIER
KCP30B	Yes	TIER 1

GRADE	COATED	VERIFICATION TIER
KC725M	—	TIER 2
KC735M	—	TIER 2
KCP40	Yes	TIER 2
KCP40B	Yes	TIER 2
KCPM40	—	TIER 2

GRADE	COATED	VERIFICATION TIER
K313	—	TIER 2
KC522M	—	TIER 1
KCM15	Yes	TIER 2
KCM15B	Yes	TIER 1
KCPM20	Yes	TIER 2
KU10	—	TIER 2
SP4019	—	TIER 1
SP6519	—	TIER 1

GRADE	COATED	VERIFICATION TIER
KCM25B	—	TIER 2
KCS10	Yes	TIER 1
KCS10B	Yes	TIER 1

GRADE	COATED	VERIFICATION TIER
K313	—	TIER 2
KC5010	Yes	TIER 1
KC525M	—	TIER 2
KCM25	Yes	TIER 2
KCM25B	—	TIER 2
KCPM20	Yes	TIER 2
KCPM30	Yes	TIER 2
KCU10	Yes	TIER 1
SP4019	—	TIER 1
SP6519	—	TIER 1

GRADE	COATED	VERIFICATION TIER
KC5025	Yes	TIER 1
KC725M	—	TIER 2
KC735M	—	TIER 2
KCM35	Yes	TIER 2
KCM35B	—	TIER 2
KCPM20	Yes	TIER 1
KCPM30	Yes	TIER 2
KCPM40	—	TIER 2
KCSM30	—	TIER 1
KCSM40	—	TIER 1
KCU25	Yes	TIER 1
X700	—	TIER 1

GRADE	COATED	VERIFICATION TIER
KC5025	Yes	TIER 1
KCU25	Yes	TIER 1

GRADE	COATED	VERIFICATION TIER
KC725M	—	TIER 2
KCPM40	—	TIER 1
KCSM40	—	TIER 1

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What the paid edition adds

This free sample is one brand. The paid **Multi-Brand Carbide Grade Chart** puts 16 brands side by side, so a substitution search stops at one document instead of sixteen separate manufacturer PDFs.

16 BRANDS	583 GRADES	1,075 POSITIONING RECORDS	123 CROSS-REFERENCED PAIRS
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Also included: a filterable XLSX workbook (Positioning, Cross-Referenced Pairs, Coverage, Read Me sheets) alongside the PDF, and 12 months of free updates from the date of purchase.

€19 — single-user licence, instant download

<https://cuttingtoolsai.eu/grade-chart/>

Scope: this free sample and the paid edition cover the exact same window — Turning, ISO P and M only. Neither covers ISO K, N, S or H, and neither covers milling. The paid edition adds 16 brands at this same P/M scope, not a wider one — do not buy it expecting K or milling coverage.