»CARBIDE AND COATINGS

POWDER PRESSINGDURITANDJURITANDJURITANDJURITANDJURITWear-resistant. Pressure-resistant. Efficient.



M » DURIT HARTMETALL

» SINCE 1982

Successful and solution-oriented

» OVER 500 EMPLOYEES Worldwide

- » MORE THAN 60 CARBIDE GRADES For wear protection and metal forming
- » 100% COATING EXPERTISE HVOF, APS, EAWS, Laser Cladding, PVD and CVD

»CARBIDE TECHNOLOGY

Tools and components made of cemented carbide are **the ultimate in** wear resistance and longevity and ensure utmost versatility. DURIT carbide solutions stand up to the toughest demands.

» DEDICATED TO CARBIDE

Carbide from a single source—from blanks to high-precision final products. DURIT produces **customized parts** and realizes **individual shapes** as well as **complex geometries**.

» WE OFFER FULL-SERVICE CARBIDE



» WEAR PROTECTION FOR POWDER PRESSING AND TABLETING

Substances and mixtures with abrasive components often play a role in powder pressing and tableting processes. The use of cemented carbide achieves **permanent contour accuracy** and a **significantly longer service life.**

» WE SOLVE WEAR PROBLEMS

Compared to steel tools, cemented carbide **increases the service life by up to 50 times.** In the chemical and pharmaceutical industries, but also in the automotive sector, DURIT's **high-tech solutions** have been tried and tested for years.

» WITHSTANDS MOST EXTREME DEMANDS

Products ::

tableting tools · dies · punches · punch inserts · centering pins · arbors · sleeves · carbide-faced press molds · press mold linings · filling and feed table plates · individual pressing tools

Typical applications ::

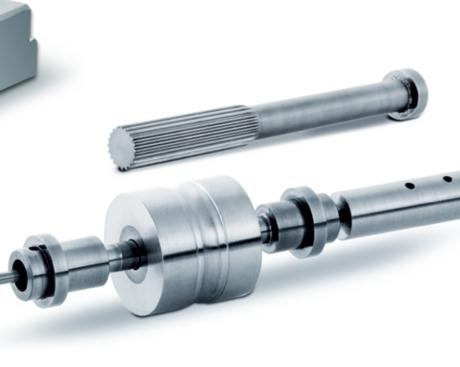
chemical industry · automotive industry · pharmaceutical industry · sintered metal production · magnet production · dental technology · industrial and technical tableting · refractory industry



Selection of application-specific carbide grades ::

GRADE	Composition	Binder (%)	Grain size	Hardness (HV30)	Fracture toughness (MPa * m ^{1/2})
GD08F	WC-Co	8,00	submicron	1625	10
GD13F	WC-Co	10,00	submicron	1540	12
GD10	WC-Co	6,00	medium	1600	10
GD15	WC-Co	8,00	medium	1460	12
GD20	WC-Co	10,00	medium	1350	15
GD30	WC-Co	15,00	medium	1150	15,5
GD10N	WC-Ni	7,00	fine	1530	10
BD20	WC-Co	10,00	coarse	1215	19





» COATING TECHNOLOGY

DURIT coatings **distinctly increase resistance** of tools, components and parts. Our experts realize **high-tech solutions** that stand out through highly specific properties.

» MORE EFFECTIVE AGAINST WEAR

In addition to solid cemented carbide, advanced coatings achieve optimized results, especially on large-volume parts. **Thermal spray coatings, laser cladding** and **PVD coatings** perfect various high-precision components. In many cases DURIT coatings are the perfect choice to **increase productivity.**

» TARGETED IMPROVEMENT OF PRODUCTIVITY



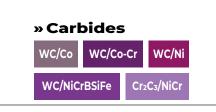
LASER CLADDING

» Alloys

Weldable powders (carbides, metals) comparable with Stellite, Triballoy, Colmoloy, Hastalloy, Inconel or similar

HVOF

High Velocity Oxygen Fuel



PVD

Physical Vapour Deposition PVD represents protection, optimization and refinement for targeted efficiency

MegaTiN®	Hai	rdTiL ULTRA®	DuraLub®			
HardSilk®	HardSilk®		UltraImpact EXCELL®			



» DURIT METALURGIA PORTUGUESA DO TUNGSTÉNIO, LDA.

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