



A UNIT OF
SONANI INDUSTRIES PRIVATE LIMITED

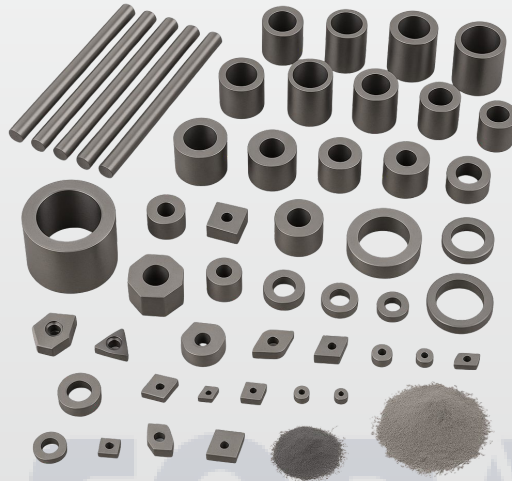


Reg Office -
T-16/17, Gujarat Hira Bourse Gem and Jewelry Park,
Ichhapore Bus Stop 2, Adajan-Hazira Road, Surat-394510

About Sonani Industries

Located in Surat's Gem and Jewelry Park, just 10 km from the city. Sonani Industries Pvt. Ltd. has over 18 years of experience in jewelry manufacturing, CVD and HPHT diamond processing and diamond cutting tools.

Leveraging this expertise, we have now entered into the manufacturing of various Tungsten Carbide products.



Building on this foundation, we have expanded into the manufacturing of tungsten carbide products, including powders, sintered parts, and finished wear components. Our operations are driven by a commitment to delivering the right solutions through expert recommendations on carbide grades and tool design.

Our facility houses a complete setup of advanced machinery and precision measuring equipments under one roof. We prioritize quality, technical excellence, and continuous improvement across all processes. Our dedicated workforce actively participates in problem-solving and decision-making, fostering a culture of responsibility and innovation.

At Sonani Tungsten, we view customer success as our own. We are committed to developing high-performance carbide products and strengthening India's capabilities in advanced manufacturing. Our approach remains centered on long-term stability, customer satisfaction, and unwavering dedication to quality and service.

Partner with us

Perform with confidence

PRODUCT RANGE WITH KEY APPLICATIONS



Heading and Metal Forming

A specially developed 25% cobalt grade delivers excellent performance in heading, cold extrusion, and nut forming applications. The controlled grain structure ensures superior accuracy and extended tool life.

Wear Applications

Wire drawing dies, wear-resistant nozzles, mechanical seal rings, carbide gauges and probes, stone crusher flats, work rest blades, gas lift valve balls and seats, and spray machine seat rings—manufactured using Sonani's high-hardness, 6% cobalt grade for superior wear resistance.



Powder Compaction Tools

Tungsten carbide grade with high compressive strength and moderate hardness is used for Powder Compaction Dies and punches in press tool sets. This process forms Powder metallurgical components from Ceramic, Ferrite, Tungsten carbide, Refractory, and Iron powders. The recommended grade offers well-controlled properties

Metal Forming

Tube drawing dies and plugs, Coining and Cold extrusion tools, Aluminum can and Bullet forming dies, Lamination dies, Powder compaction punches, and Battery industry tooling.



Mining Application

Sonani's grade offers an ideal blend of hardness and toughness, making it highly suitable and durable for Mining applications such as Deep hole drilling, Tunnel boring, Excavator bucket teeth, and Buttons for rock roller bits.

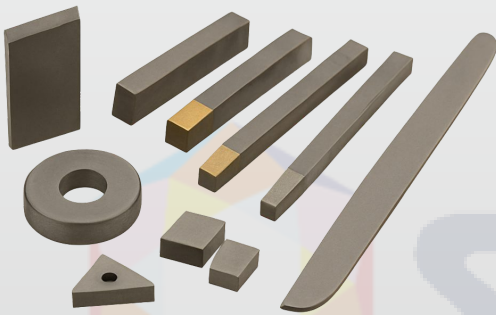
Oil & Gas Industry Applications

Nickel-binder carbide grades are engineered for high hardness, chemical stability, and excellent wear resistance under extreme conditions. Common components include Flow beans, Stems, Valve seats, Stabilizer discs, Choke valve seats (3/4", 1", 2"), choke beans (4/64" to 64/64"), Gate valve parts, TC plugs, and Cages all manufactured to meet stringent Oil & Gas industry standards.



Cutting Application

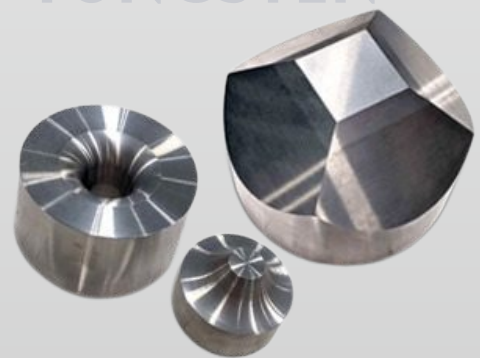
A very special grade with a correct combination of fine grains and good edge retention property helps to maintain a sharp edge while in use for a longer time, giving more life to tools. It is generally used for making blades in Plastic granule cutting machines.



As a Broach cutter for the Bearing industry. Cutting Asbestos sheets in the wet and green stage, Cork cutting knife in the cigarette industry. To make metal cutting tools by brazing the tips, Blanks for Burr removal rotary tools, etc.

Diamond Industry for diamond growing Application

Carbide Anvils with a vast range of sizes varying from Dia. 70.0 to Dia. 240.0 mm. A very special grade developed with extensive input on applications and processes. This helps to retain and sustain high pressure as well as high temperature during use.



EQUIPMENT AND TESTING FACILITIES



Our facility is well-equipped with a comprehensive range of advanced testing instruments, ensuring the highest standards of quality and precision. These include an Electronic Density Meter, Vickers Hardness Tester, Coercivity Meter, Metallographic Microscope, Average Particle Size Analyzer, Atomic Absorption Spectrophotometer, Carbon-Sulfur Analyzer, LECO Oxygen and Nitrogen Analyzer, and a Contracer.

Sonani Tungsten - Carbide Grade Specifications and Applications

Grade SC	WC%	Co%	Ni%	Others-%	Specific Wt.	Hardness	Min. TRS	Gr. Size	Application
					(gm/cc3)	(Hv)	(N/mm2)	(microns)	
SCW06	94	6	NIL	NIL	14.85-15.10	1450-1585	2400	1.3-1.8	Used in wire drawing, gauges, seals, valves, choke beans, flow cages, nozzles, and wear pads.
SCW11	89	11	NIL	NIL	14.35-14.50	1210-1330	3000	1.7-2.1	For tube drawing, powder compaction dies/core rods, and sealing rings.
SCW15	85	15	NIL	NIL	13.95-14.15	1060-1180	3000	1.6-2.0	Cold drawing of tubes, Metal forming dies, Coining dies, Bowls for mineral processing, Stamping punches
SCW25	75	25	NIL	NIL	13.00-13.25	740-860	3100	2.3-2.7	Fastener mfg., Can Extrusion, Swaging dies,
SCR08	92	8	NIL	NIL	14.64-14.80	1200-1300	3000	2.4-2.8	Mining - Buttons
SCR09	91	9	NIL	NIL	14.50-14.62	1155-1275	2700	3.3-3.8	Mining-Drill Steel Inserts
SCF06	93.5	6	NIL	0.5	14.75-14.90	1700-1820	2400	0.8-0.9	Wire drawing, metal cutting, and shot blasting
SCF10	89.5	10	NIL	0.5	14.33-14.50	1580-1700	3000	0.8-0.9	Plastic granual cutting, Metal cutting
SCF15	84.66	15	NIL	0.34	13.88-14.04	1300-1420	3300	0.8-0.9	Coining with high impact, Oil & Gas Ind.
SCK06	92.2	6	NIL	1.8	14.72-14.88	1470-1590	2400	1.5-1.9	Broach cutter in bearing ind, Rotary burrs, Metal cutting
SCK06M	92.2	6	NIL	1.8	14.70-14.86	1500-1620	2400	0.8-0.9	Knives for Asbestos sheet cutting
SCN06	94	NIL	6	NIL	14.88-15.04	1300-1420	2400	1.1-1.4	Wear applications in food and Oil & Gas industries, including pump seal rings.
SCN10	90	NIL	10	NIL	14.40-14.60	1370-1490	2600	1.1-1.4	Wear-resistant use in corrosive environments, food industry, and Oil & Gas sector.
SCN27	72.5	NIL	27	0.5	13.05-13.25	750-850	3100	1.5-1.9	Specialized need in Oil & Gas industry for stabilizer discs.

* For any specific application, new grade can be developed after techno-commercial discussions

MICRO STRUCTURES



SCW 06



SCR 08



SCW 15



SONANI



SONANI INDUSTRIES PRIVATE LIMITED

Units



Group Of Companies



CONTACT US

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