

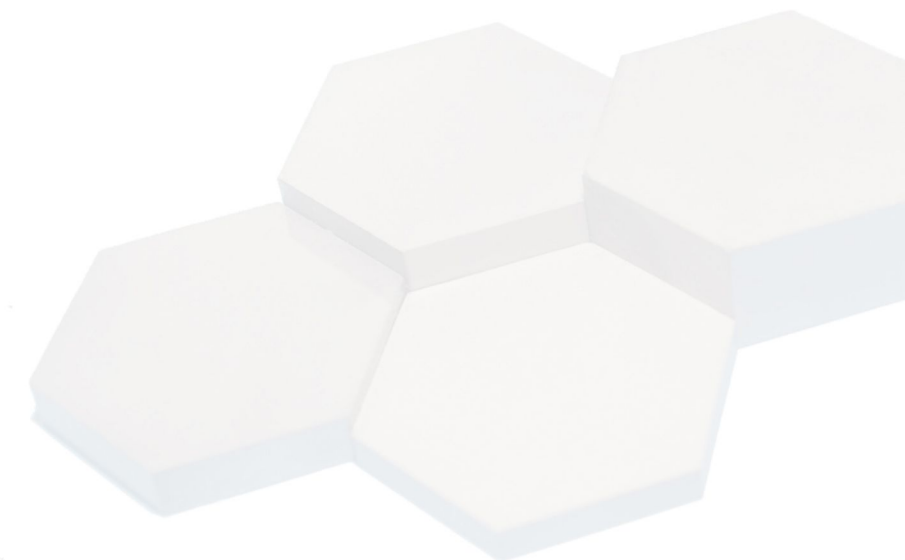


创新·专业·诚信

INNOVATION PROFESSIONAL CREDIBILITY

陶瓷/插板产品说明手册

BALLISTIC CERAMICS & PLATE



株洲贝特硬质合金工具有限公司

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株洲贝特硬质合金工具有限公司

Zhuzhou Better Tungsten Carbide Co., Ltd



ABOUT US



公司简介 COMPANY PROFILE

株洲贝特硬质合金工具有限公司成立于2008年湖南株洲，最早以生产硬质合金为主，渐渐地扩展到碳化硼和碳化硅陶瓷行业，产品远销美国，欧洲，中东及其他国家，并赢得了良好的声誉。

BSTEC是我们新注册的商标，用于专业研发、生产和销售特种陶瓷产品，生产基地位于浙江龙游工业园。BSTEC主要的产品有碳化硅和碳化硼陶瓷、人体防护插板、盾牌、装甲防护、工业喷嘴等。

工厂占地面积100平方，总投资1.7亿。目前年总产值达到碳化硅陶瓷1000吨，碳化硼陶瓷500吨，防弹插板50万块。我们配备了先进的生产检测设备，专业的研发销售团队，完整的生产和质量控制体系。我们从未停止根据市场对产品的研发，以确保客户100%满意！

一次选择，永久合作。选择BSTEC, 让我们共同发展，同创辉煌！

Zhuzhou Better Tungsten Carbide Company was founded in 2008 at Hunan Province, China. We start from tungsten carbide and expands its field to boron carbide and silicon carbide in year 2012. The products are widely sold to USA, Europe, Russia, the Middle East and many other countries because of its good reputation.

BSTEC is our new brand, it is specialized in developing, manufacturing and marketing advanced ceramics which widely used in industrial wear-resistance and ballistic protection areas. Production base is located in Zhejiang Longyou Industrial Zone. BSTEC's main products are silicon carbide and boron carbide ceramics, body armor inserts, industrial wear-resistance ceramic products.

The factory covers an area of 100 square meters with a total investment of 170 million RMB. Now the annual production capacity is 1,000 tons of silicon carbide ceramics, 500 tons of boron carbide ceramics and 500,000 bulletproof inserts. We have advanced producing and test facilities. We have professional technical team, sales team, producing team and QC systems. We never stop research and develop on products according to the market to assure our customers' 100% satisfied!

One try is eternity. Choose BSTEC, we will win together!

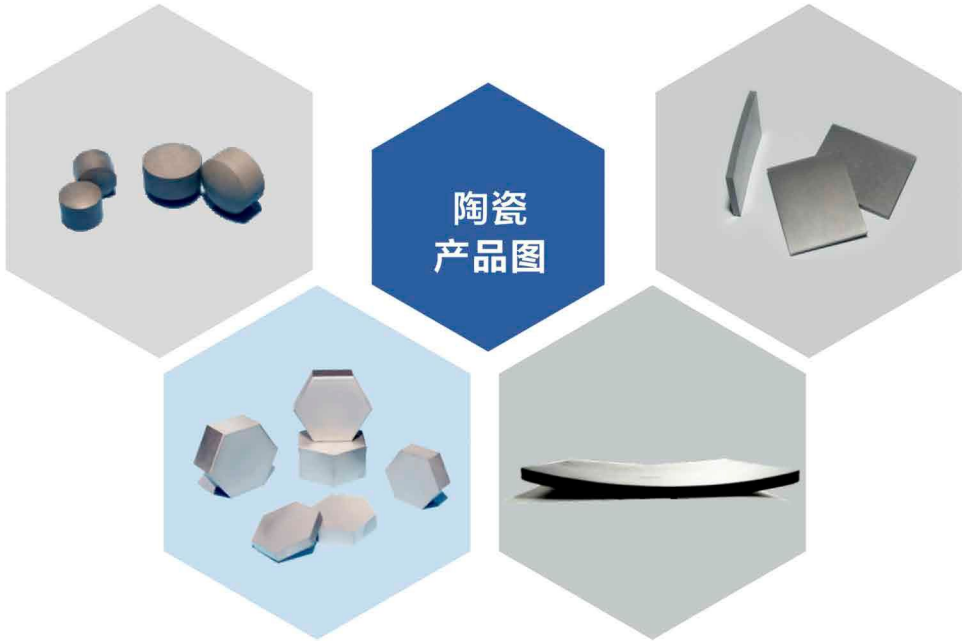


防弹陶瓷
BALLISTIC CERAMICS



碳化硼陶瓷 B4C

性能 Specification	碳化硼 B4C	碳化硼+碳化硅 B4C + SiC
	BC15	BCS50
密度 Density(g/cm³)	2.62-2.67	2.80-2.85
硬度 Hardness (HV)	≥3000	≥2800
抗弯强度 Bending Strength (Mpa)	≥400	≥400
断裂韧性 Fracture Toughness (Mpa m ^{1/2})	≥4.5	≥4.0

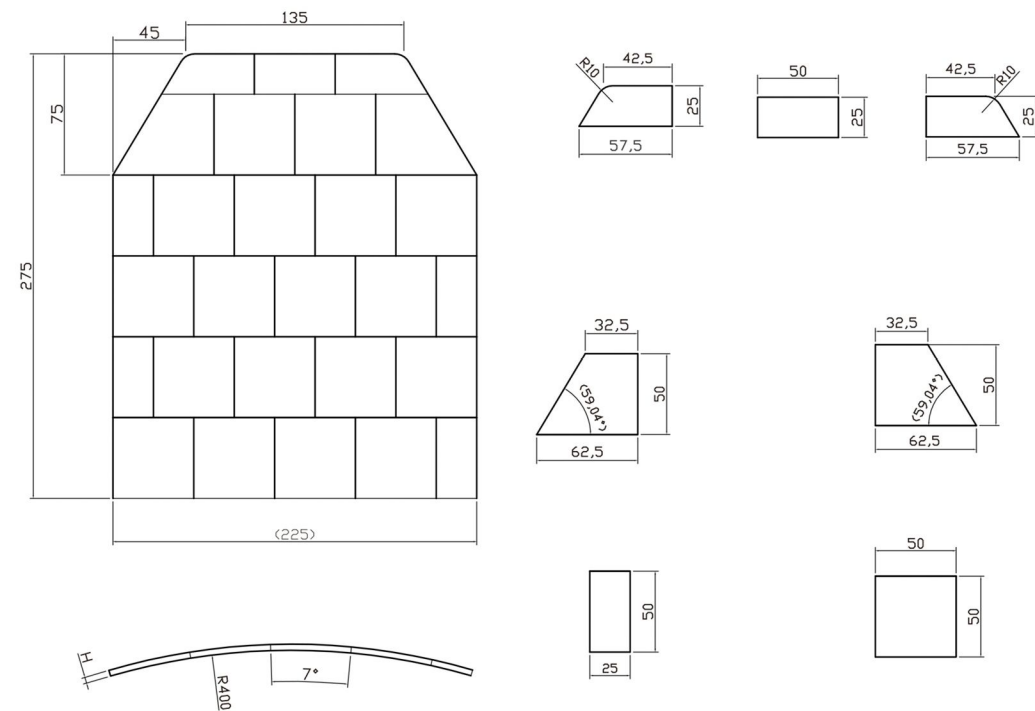


碳化硅陶瓷 SSiC

性能 Specification	碳化硅 SSiC
密度 Density(g/cm³)	3.14-3.17
硬度 Hardness (HV)	≥2600
抗弯强度 Bending Strength (Mpa)	≥390
断裂韧性 Fracture Toughness (Mpa m ^{1/2})	≥4.0

50-50 方形陶瓷

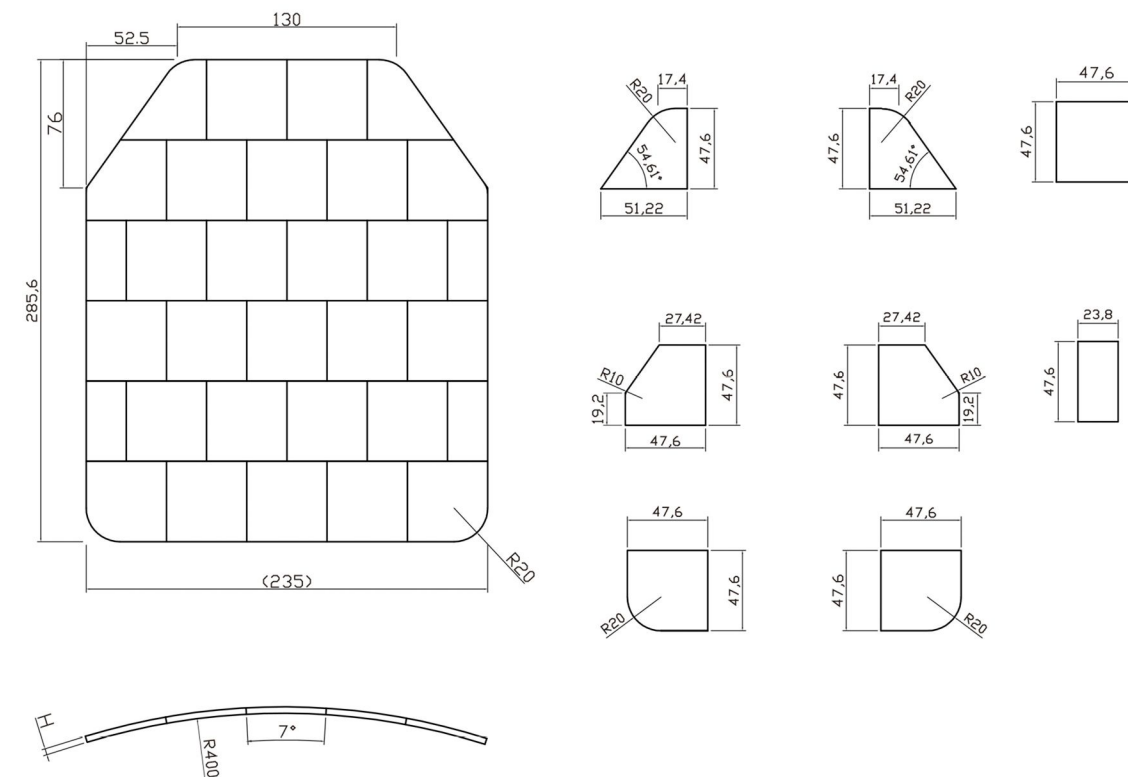
RECTANGLE CERAMICS



H: 4.0-12.0

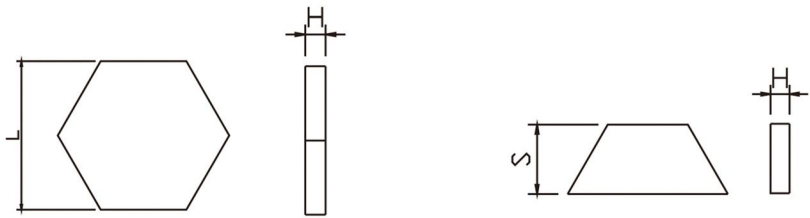
47-47 防弹陶瓷

RECTANGLE CERAMICS

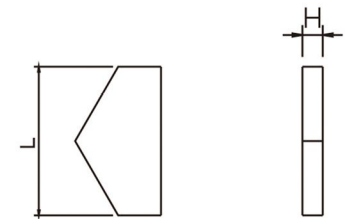


H: 4.0-12.0

六角块 防弹陶瓷
HEXAGONAL CERAMICS



NO.	S	H
1	10	3.7-12
2	10.78	
3	15	4-40
4	20	

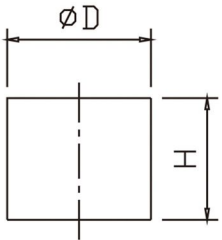
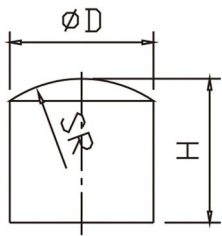
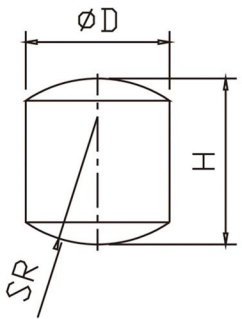


NO.	L	H
1	20	3.7-12
2	21.56	
3	30	4-40
4	40	



NO.	S	H
1	10	3.7-12
2	10.78	
3	15	4-40
4	20	

圆柱 防弹陶瓷
CYCLINDER CERAMICS

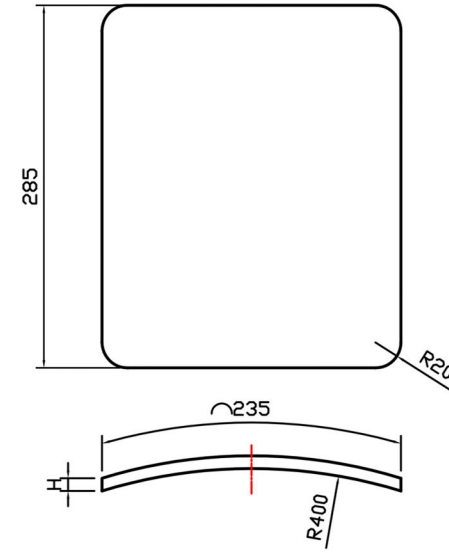
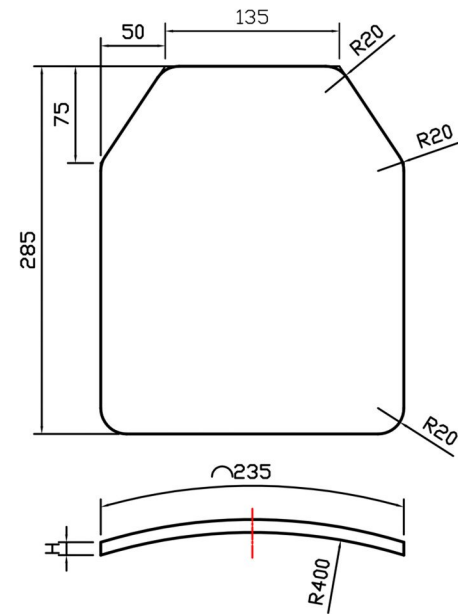


NO.	D	H
1	10	11.0-15.0
2	13	
3	14	

整板陶瓷

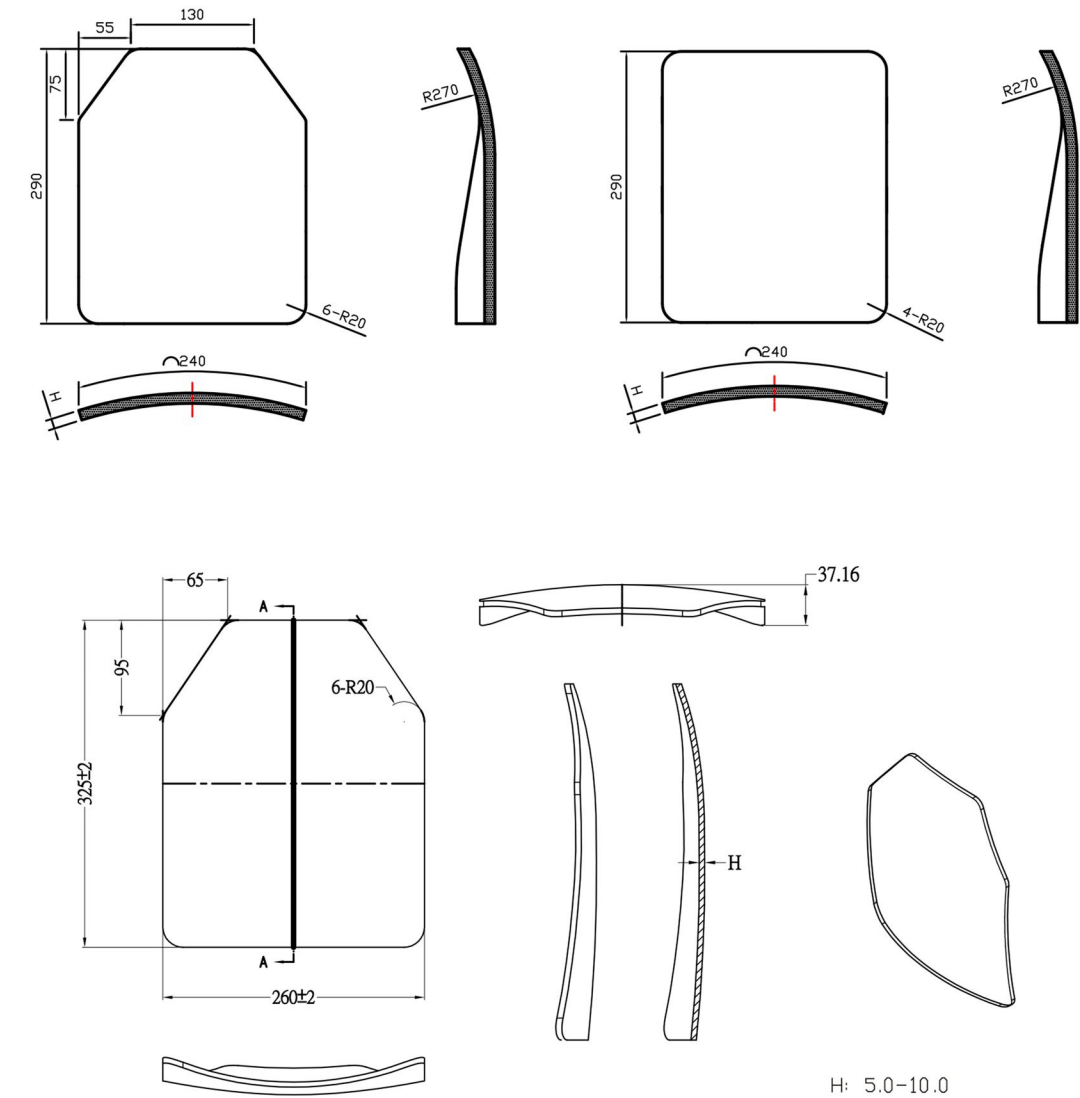
Monolithic ceramics

235×285



240×290

整板陶瓷
Monolithic ceramics





防弹插板 BULLETPROOF PLATE ►

我们的防弹板设计得很舒适，给人体尽可能多的移动自由，同时提供最大限度的保护。这些插板可以按不同国家地区的不同级别进行生产，单曲和多曲插板都可以提供。

我们专注于插板轻量化解决方案，研发生产的复合碳化硼四级插板比普通碳化硅插板减重10%，新型碳化硼插板则可减重15%以上。

BSTEC's bulletproof plates are designed to be comfortable and give human body as much freedom of movement as possible while offering maximum coverage of protection. The plates could be produced in diverse protection levels, the shape of inserts could be single curved or multi-curved.

BSTEC focuses on light weight solution, the composite boron carbide plate's weight is 10% less than ordinary plate, the new boron carbide plate's weight can be reduced by more than 15%.

防弹插板 技术参数 SPECIFICATION

■ NIJ 0101.06 level III Plate

材料Material：碳化硅 SIC Ceramic+PE
子弹类型Threat: 单防 SA against AK47 7.62*39 Hard core Steel/7.62*51 Nato Ball(M80)
尺寸 Dimension：250mm*300mm
重量 Weight: 1.55kg±50g



材料Material：复合碳化硼 Composite B4C+PE
子弹类型Threat: 单防 SA against 5.56*45 SS109
尺寸Dimension：250mm*300mm
重量Weight: 1.70kg±50g



防弹插板技术参数 SPECIFICATION

■ NIJ 0101.06 level IV Plate

材料Material：碳化硅 SIC Ceramic+PE

子弹类型Threat：单防 SA against 7.62*51 AP/7.62*63 M2 AP

尺寸 Dimension：250mm*300mm

重量 Weight: 2.6kg±50g



材料Material：复合碳化硼 Composite Boron Carbide+PE

子弹类型Threat：单防 SA against 7.62*51 AP/7.62*63 M2 AP

尺寸 Dimension：250mm*300mm

重量 Weight: 2.35kg±50g



材料Material：碳化硼 B4C Ceramic+PE

子弹类型Threat：单防 SA against 7.62*51 AP/7.62*63 M2 AP

尺寸 Dimension：250mm*300mm

重量 Weight: 2.20kg±50g

测试 结果 TEST RESULT



■ 三级防弹板测试结果

三级防弹板由碳化硅和PE背板复合而成，可同时防7.62*51mm M80弹和AK-47 7.62*39 MSC弹。以上是我们三级防弹板经过8枪AK-47 7.62*39 MSC弹打靶测试的结果。

SSIC bulletproof plate is composition of SSIC ceramic and PE back pannel,designed against 7.62*51mm Nato ball/7.62*39MSC(AK-47)according to NIJ 0101.04/0101.06. Note damaged area and the back face signature after stopping 8 hits ofAK-47 7.62*39 bullets.

■ 四级防弹板测试结果

插板采用我司领先技术生产的碳化硼陶瓷加PE背板复合而成，经过三枪7.62 穿甲燃烧弹打靶后，最大背凸小于26.5mm。

Our NIJ level IV plate is composite of SB4C and PE, note the small localized damaged area and the back face signature(BFS<26.5 mm) after stopping 3 shots of 7.62mm API bullets.



公司印象 GALLERY

