

Precision Brand Steel Feeler Gauge Strips

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PRECISION BRAND Feeler Gauge

Material is ground and polished to a precision tolerance

Thicknesses are clearly etched every 6" in decimal and metric

Feeler Gauge stock is available in 25 feet coils and in convenient 12" / 305mm lengths

Material: C-1095 Close Grain High Carbon Spring Steel

Carbon	0.87-1.10
Phosphorus	0.036 Max
Silicon	0.10-0.33
Manganese	0.27-0.53
Sulphur	0.050 Max
Temper	Spring
Hardness	48-62 HRC
Meets Specifications	FED-GGG-G-17C For length and thickness only ASTM A-682

Steel Feeler Gauge Strips Metric: 12.7mm wide x 305mm long

Code	Thickness mm	Box Quantity	Accuracy	Weight Kilos	W mm	H mm	L mm
79-109-205	0.05	12	±0.003mm	0.073	45	17	320
79-109-210	0.10	12	±0.004mm	0.092	45	17	320
79-109-215	0.15	12	±0.005mm	0.111	45	17	320
79-109-220	0.20	12	±0.006mm	0.129	45	17	320
79-109-225	0.25	12	±0.007mm	0.148	45	17	320
79-109-230	0.30	12	±0.007mm	0.150	45	17	320
79-109-235	0.35	12	±0.008mm	0.185	45	17	320
79-109-240	0.40	12	±0.009mm	0.204	45	17	320
79-109-245	0.45	12	±0.009mm	0.223	45	17	320
79-109-250	0.50	12	±0.010mm	0.241	45	17	320
79-109-255	0.55	12	±0.010mm	0.26	45	17	320
79-109-260	0.60	12	±0.010mm	0.279	45	17	320
79-109-265	0.65	12	±0.012mm	0.297	45	17	320
79-109-270	0.70	12	±0.012mm	0.316	45	17	320
79-109-275	0.75	12	±0.012mm	0.337	45	17	320
79-109-280	0.80	12	±0.013mm	0.353	45	17	320
79-109-285	0.85	12	±0.013mm	0.372	45	17	320
79-109-290	0.90	12	±0.013mm	0.391	45	17	320
79-109-295	0.95	12	±0.013mm	0.41	45	17	320
79-109-300	1.00	12	±0.017mm	0.428	45	17	320

Precision Brand Steel Feeler Gauge Strips

Steel Feeler Gauge Strips Inch: ½" wide x 12" long

Code	Thickness Inch	Thickness Metric	Box Quantity	Accuracy	Weight Kilos	W mm	H mm	L mm
77-119-120	0.001	0.025	12	±0.00012"	0.068	45	17	320
77-119-145	0.0015	0.038	12	±0.00012"	0.073	45	17	320
77-119-170	0.002"	0.064	12	±0.00016"	0.073	45	17	320
77-119-185	0.0025	0.064	12	±0.0002"	0.082	45	17	320
77-119-210	0.003	0.076	12	±0.0002"	0.082	45	17	320
77-119-235	0.004	0.102	12	±0.0002"	0.095	45	17	320
77-119-260	0.005	0.127	12	±0.00024"	0.105	45	17	320
77-119-285	0.006"	0.152	12	±0.00024"	0.109	45	17	320
77-119-310	0.007	0.178	12	±0.00028"	0.127	45	17	320
77-119-335	0.008	0.203	12	±0.00032"	0.141	45	17	320
77-119-360	0.009	0.229	12	±0.00032"	0.141	45	17	320
77-119-385	0.010	0.254	12	±0.00035"	0.15	45	17	320
77-119-400	0.011	0.279	12	±0.00035"	0.159	45	17	320
77-119-425	0.012	0.305	12	±0.00035"	0.168	45	17	320
77-119-440	0.013	0.330	12	±0.00043"	0.177	45	17	320
77-119-465	0.014	0.356	12	±0.00043"	0.185	45	17	320
77-119-490	0.015	0.381	12	±0.00043"	0.195	45	17	320
77-119-515	0.016	0.406	12	±0.00047"	0.205	45	17	320
77-119-530	0.017	0.432	12	±0.00047"	0.215	45	17	320
77-119-555	0.018	.0457	12	±0.00047"	0.223	45	17	320
77-119-570	0.019	0.483	12	±0.00047"	0.232	45	17	320
77-119-595	0.020	0.508	12	±0.00055"	0.236	45	17	320
77-119-610	0.021	0.533	12	±0.00055"	0.245	45	17	320
77-119-635	0.022	0.559	12	±0.00055"	0.255	45	17	320
77-119-650	0.023	0.584	12	±0.00055"	0.268	45	17	320
77-119-675	0.024	0.610	12	±0.00055"	0.277	45	17	320
77-119-700	0.025	0.635	12	±0.00067"	0.286	45	17	320
77-119-715	0.028	0.711	12	±0.00067"	0.309	45	17	320
77-119-730	0.030	0.762	12	±0.00067"	0.332	45	17	320
77-119-745	0.031"	0.787	12	±0.00067"	0.336	45	17	320
77-119-760	0.032	0.813	12	±0.00075"	0.35	45	17	320
77-119-775	0.034	0.864	12	±0.00075"	0.373	45	17	320
77-119-790	0.040	1.016	12	±0.00094"	0.407	45	17	320



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Temper	Spring
Hardness	48-62 HRC
Meets Specifications	FED-GGG-G-17C For length and thickness only ASTM A-682

Steel Feeler Gauge Coils Metric: 12.7mm wide x 7.6 metres long

Code	Thickness mm	Coil Length	Accuracy	Weight Kilos	W mm	H mm	L mm
79-109-105	0.05	7.6 metres	±0.003mm	0.13	105	25	105
79-109-110	0.10	7.6 metres	±0.004mm	0.169	105	25	105
79-109-115	0.15	7.6 metres	±0.005mm	0.208	105	25	105
79-109-120	0.20	7.6 metres	±0.006mm	0.247	105	25	105
79-109-125	0.25	7.6 metres	±0.007mm	0.29	105	25	105
79-109-130	0.30	7.6 metres	±0.007mm	0.329	105	25	105
79-109-135	0.35	7.6 metres	±0.008mm	0.368	105	25	105
79-109-140	0.40	7.6 metres	±0.009mm	0.407	105	25	105
79-109-145	0.45	7.6 metres	±0.009mm	0.446	235	30	235
79-109-150	0.50	7.6 metres	±0.010mm	0.485	235	30	235
79-109-155	0.55	7.6 metres	±0.010mm	0.524	235	30	235
79-109-160	0.60	7.6 metres	±0.010mm	0.563	235	30	235
79-109-165	0.65	7.6 metres	±0.012mm	0.601	235	30	235
79-109-170	0.70	7.6 metres	±0.012mm	0.64	235	30	235
79-109-175	0.75	7.6 metres	±0.012mm	0.684	235	30	235
79-109-180	0.80	7.6 metres	±0.013mm	0.718	235	30	235
79-109-185	0.85	7.6 metres	±0.013mm	0.757	235	30	235
79-109-190	0.90	7.6 metres	±0.013mm	0.796	235	30	235
79-109-195	0.95	7.6 metres	±0.013mm	0.835	235	30	235
79-109-200	1.00	7.6 meters	±0.017mm	0.874	235	30	235

Precision Brand Steel Feeler Gauge Coils

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Steel Feeler Gauge Coils Inch: ½" wide x 25' long

Code	Thickness Inch	Thickness Metric	Accuracy	Weight Kilos	W mm	H mm	L mm
77-119-125	0.001	0.025	±0.00012"	0.059	105	25	105
77-119-150	0.0015	0.038	±0.00012"	0.064	105	25	105
77-119-175	0.002	0.064	±0.00016"	0.077	105	25	105
77-119-190	0.0025	0.064	±0.0002"	0.086	105	25	105
77-119-215	0.003	0.076	±0.0002"	0.091	105	25	105
77-119-240	0.004	0.102	±0.0002"	0.114	105	25	105
77-119-265	0.005	0.127	±0.00024"	0.132	105	25	105
77-119-290	0.006	0.152	±0.00024"	0.15	105	25	105
77-119-315	0.007	0.178	±0.00028"	0.168	105	25	105
77-119-340	0.008	0.203	±0.00032"	0.191	105	25	105
77-119-365	0.009	0.229	±0.00032"	0.209	105	25	105
77-119-390	0.010	0.254	±0.00035"	0.227	105	25	105
77-119-405	0.011	0.279	±0.00035"	0.255	130	25	130
77-119-430	0.012	0.305	±0.00035"	0.286	130	25	130
77-119-445	0.013	0.330	±0.00043"	0.3	130	25	130
77-119-470	0.014	0.356	±0.00043"	0.318	130	25	130
77-119-495	0.015	0.381	±0.00043"	0.341	130	25	130
77-119-520	0.016	0.406	±0.00047"	0.355	130	25	130
77-119-535	0.017	0.432	±0.00047"	0.377	130	25	130
77-119-560	0.018	.0457	±0.00047"	0.395	130	25	130
77-119-575	0.019	0.483	±0.00047"	0.414	130	25	130
77-119-600	0.020	0.508	±0.00055"	0.436	130	25	130
77-119-615	0.021	0.533	±0.00055"	0.455	130	25	130
77-119-640	0.022	0.559	±0.00055"	0.473	130	25	130
77-119-655	0.023	0.584	±0.00055"	0.5	130	25	130
77-119-680	0.024	0.610	±0.00055"	0.509	130	25	130
77-119-705	0.025	0.635	±0.00067"	0.527	130	25	130
77-119-720	0.028	0.711	±0.00067"	0.645	130	25	130
77-119-735	0.030	0.762	±0.00067"	0.691	130	25	130
77-119-750	0.031	0.787	±0.00067"	0.7	235	30	235
77-119-765	0.032	0.813	±0.00075"	0.714	235	30	235
77-119-780	0.034	0.864	±0.00075"	0.755	235	30	235

Material Safety Data Sheet



MATERIAL SAFETY DATA SHEET

Common Name:	Hardened & Tempered Carbon Steel
Trade Name(s):	Product Code:
Blue Temper Shim	23
Feeler Gage (Steel only)	09 & 19
Shoulder Screw Shims	26
Die Button Shims	26

Manufacturer	Phone number (for information)
Precision Brand Products, Inc. 2250 Curtiss Street Downers Grove IL 60515 USA	(630) 969-7200
	Emergency Phone Number
	Chemtrec 800-424-9300 USA & Canada 202-483-7616 International
Date prepared: January 1, 2001	Date Reviewed: January 15, 2008

1. INGREDIENTS

Material or Component	% Weight	Exposure Limits	
		OSHA PEL (mg/m ³)	ACGIH TLV (mg/m ³)
Base Metal			
Iron (Fe)	Balance	10 (Fe ₂ O ₃ Fume)	5.0 (Fe ₂ O ₃ Fume)
Alloying Elements			
Aluminum (Al)	0.10 – 1.8	None listed	5.0 as welding fume
Carbon (C)	0.01-1.5	None listed	None Listed
Chromium (Cr)	0.01-1.2	1.0 as chrome	0.5 as chrome
Cobalt (Cb)	8 Max.	0.1 as cobalt & fume	0.05 as fume
Copper (Cu)	0.04-0.7	0.02 as copper, 1.0 as dust	0.2 as fume & 1.0 as dust
Lead (Pb)	0.15-0.35	0.05 as fume & dust	0.15 as dust & fume
Manganese (Mn)	0.05-2.0	5 as manganese	5 as dust & 1 as fume
Molybdenum (Mb)	0.01-1.10	15 as insoluble compounds	1.0 as insoluble compounds
Nickel (Ni)	0.01-1.0	1.0 as nickel	1.0 as nickel
Phosphorous (P)	0.15 Max.	0.1 as phosphorous	0.1 as phosphorous
Silicon (Si)	0.15-2.20	None listed	10 total dust
Sulfur (S)	0.001-0.35	13 sulfur dioxide	5 sulfur dioxide
Tungsten (W)	0-18	None listed	5 insoluble compounds
Vanadium (V)	0.01-10	0.5 dust & 0.1 fume	0.05 dust & fume
Zinc (Zn) coating	10 Max.	5.0 as fume	5.0 as fume

Note: The above listing is a summary of elements used in alloying steel. Various grades of steel will contain different combinations of these elements. Trace elements may also be present in minute amounts.

2. PHYSICAL DATA

Material is (at normal conditions):	Appearance and Odor:
<input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Gas <input type="checkbox"/> Other	Gray-Black with Metallic Luster - Odorless
Acidity/Alkalinity: pH = NA	Specific Gravity (H ₂ O=1): 7
Melting Point: Approx. 2750°F	Solubility in Water (% by wt): NA
Boiling Point: NA	Vapor Pressure (mm Hg @ 20°C) NA

Precision Brand Steel Feeler Gauge Stock

Material Safety Data Sheet

Precision Brand Products, Inc. MSDS: Hardened & Tempered Carbon Steel

3. PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection:	NIOSH approved dust/mist/fume respirator should be used during welding or burning if OSHA PEL or TLV is executed.
Eyes & Face:	Safety glasses should always be worn when grinding or cutting; face shields should be worn when welding or burning.
Hands, Arms & Body:	Use appropriate protective clothing such as welder's aprons & gloves when welding or burning.
Other Clothing and Equipment:	As Required

4. EMERGENCY MEDICAL PROCEDURES

Inhalation:	Remove to fresh air. If condition continues, consult physician.
Eye Contact:	Immediately flush well with running water to remove particulate; get medical attention.
Skin Contact:	If irritation develops, remove clothing and wash well with soap and water. If condition persists, seek medical attention.
Ingestion:	If significant amounts of metal are ingested, seek medical attention.

5. HEALTH/SAFETY INFORMATION

Steel products in the natural state do not present an inhalation, ingestion, or contact health hazard. However, operations such as welding, burning, sawing, brazing, grinding, and possibly machining, which result in elevating the temperature of the product to or above its melting point or result in the generation of airborne particulate may present hazards. The above operations should be performed in well ventilated areas. The major exposure hazard is inhalation.

Effects of Overexposure

Acute:	Excessive inhalation of all metallic fumes and dusts may result in irritation of the eyes, nose, and throat. Also, high concentrations of fumes and dusts of iron-oxide, manganese, copper, and selenium may result in metal fume fever. Typical symptoms consist of a metallic taste in the mouth, dryness and irritation of the throat, chills and fever, usually lasting from 12 to 48 hours.
Chronic:	Chronic and prolonged inhalation of high concentrations of fumes or dust of the following elements may lead to the conditions listed opposite the element:

Iron (Iron-oxide): Pulmonary effects, siderosis.**Manganese:** Bronchitis, pneumonitis, lack of coordination.**Chromium:** Various forms of dermatitis, inflammation and/or ulceration of upper respiratory tracts, and possibly cancer of nasal passages and lungs. Based on available information, there does not appear to be any evidence that exposure to welding fume induces human cancer.**Nickel:** Same as Chromium**Selenium:** Nasal and bronchial irritation, gastro-intestinal disturbances, garlic odor of breath.**Copper:** Pulmonary effects**Vanadium:** No reported cases of exposure to vanadium.**Molybdenum:** Pain in joints, hands and feet.

Occupational Exposure Limits See section 1.

FIRE AND EXPLOSION

Flash Point:	NA	Flammable Limits in Air:	Lower: NA
Autoignition Temperature	NA		Upper: NA
Fire & Explosion Hazards	None	Extinguishing Media	NA
		Extinguishing Media Not to be used	NA

REACTIVITY

Stability:	Stable	Incompatibility (Materials to avoid)	Reacts with strong acids to form hydrogen gas
Conditions to Avoid:	Non-ventilated areas when cutting, welding, burning, or brazing. Avoid generation of airborne dusts and fumes.		
Hazardous Decomposition Products	Metallic Oxides.		

Material Safety Data Sheet

Precision Brand Products, Inc. MSDS: Hardened & Tempered Carbon Steel

6. ENVIRONMENTAL	
Spill or Leak Procedures:	NA
Special Precautions:	Use good housekeeping practices to prevent accumulation of dust and to keep airborne dust to a minimum.
Waste Disposal Method	Dust, etc. – follow federal, state, and local regulations regarding disposal.

NOTE: The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Precision Brand Products, Inc. makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular period. Accordingly, Precision Brand Products, Inc. will not be responsible for damages of any kind resulting from the use of or reliance upon such information. NO REPRESENTATIONS, OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER TO WHICH THE INFORMATION REFERS. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.