

Wheel Selection Guide

WHEEL TYPE	CAPACITY (LBS EACH)	TEMPERATURE RANGE* (FAHRENHEIT)	FLOOR SURFACES									
			CARPET	BRICK	CONCRETE	LINOLEUM	ASPHALT	TERRAZZO	WOOD	SMOOTH STEEL	RIBBED STEEL	TILE
Performa Rubber®	60 → 1700	-45 to +180°¹	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Moldon Nylon	1000 → 1500	-45 to +180°	✓	✓	✓				✓	✓		
Polyurethane HI-TECH™	100 → 1700	-45 to +180°	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Polyurethane (Round Tread)	1000 → 1450	-45 to +180°	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Triumph™	1200	-45 to +180°	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Polyolefin	75 → 900	-45 to +180°	✓	✓	✓				✓	✓		
Phenolic	300 → 4000	-45 to +180°	✓	✓	✓			✓	✓			
Moldon Rubber	540 → 1140	-45 to +160°	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Moldon Polyurethane	600 → 4800	-45 to +180°	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cast Iron	200 → 4000	-45 to +500°			✓				✓			
Forged Steel	1400 → 3500	-45 to +180°			✓				✓			
V-Groove	800 → 6000	-45 to +180°			✓				✓			
Thermo	600 → 1000	-70 to +525°²	✓	✓	✓				✓	✓		
ThermoTech	60 → 250	-45 to +525°³	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Endura®	1000 → 1200	-40 to +230°	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Maxim®	700 → 1400	-45 to +350°	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

¹ 180° intermittent service; 120° continuous service

² 525° intermittent service; 480° continuous service

³ 525° intermittent service; 490° continuous service

See Wheel Section for information regarding higher operating temperature ranges.

Performa Rubber Chemical Chart

Substance	Rating	Substance	Rating	Substance	Rating	Substance	Rating
Organics & Solvents		Methyl ethyl ketone	F	Acetic, 75%	G	Alkalies	
Acetone	G	Oakite (floor cleaner)	E	Acetic, glacial	G	Tartaric	F
Alcohol, butyl	G	Orangeve	X	Boric	G	Ammonium hydroxide	G
Alcohol, ethyl	G	Naptha	F	Butyric	G		
Alcohol, methyl	G	Nitrobenzene	X	Chromic	F	Calcium hydroxide	G
Aniline	G	Phenol	X	Citric	G	Potassium hydroxide	G
Benzene	X	Tuluene	X	Fluoboric	G	Sodium hydroxide	G
Bravo (wax stripper diluted)	E	Trichloroethylene	X	Hydrobromic, 25%	G		
Carbon disulfide	X	Varsol	X	Hydrochloric, 10%	G	Acids	
Carbon tetrachloride	X	Vestalene (detergent diluted)	E	Hydrofluoric	F	Acid salts	G-F
Chlorobenzene	X	Urine	E	Lactic	F		
Chloroform	X			Nitric, 5%	G	Alkaline salts	G
Colson 45 lubricant	G	Gases		Nitric, 65%	X	Neutral salts	G
Enclean SS-2 (parts cleaner)	X	Carbon dioxide	G	Oleic	G	Miscellaneous salts:	
Ethyl acetate	F	Carbon monoxide	G	Oleum	X	Potassium dichromate	G
Ethylene chloride	G	Chlorine, wet	F	Oxalic	G	Potassium permanganate	G
Ethylene dichloride	F	Chlorine, dry	F	Phosphoric, 25%	G	Salt water	G
Ethyl ether	G	Hydrogen sulfide	G	Phosphoric, 85%	G	Sodium cyanide	G
Formaldehyde, 37%	G	Sulfur dioxide, wet	F	Sulfuric, 10%	G	Sodium ferricyanide	G
Gasoline	X	Sulfur dioxide, dry	F	Sulfuric, 78%	F	Sodium hypochlorite	G
Heptane	X	Acids		Tannic	G		
Methylene chloride	X	Acetic, 10-50%	G				

E=Excellent G=Good F=Fair X=Unacceptable

IMPORTANT NOTICE - CHEMICAL RESISTANCE CHART GUIDELINES

This chart lists an extensive range of chemicals, solvents and gases. Examine the listings in this chart to determine if your application is considered compatible with Performa wheels. Ratings are at 72°F. Concentrations of aqueous solutions are saturated except where noted. Information in this chart is based on laboratory tests and results may vary in actual caster applications. Field testing is recommended to confirm compatibility with your particular application. For information on the compatibility of other fluids and chemicals, please contact the factory.

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OPERATING CONDITIONS											DUROMETER RATINGS	CATALOG PAGE NUMBER	WHEEL TYPE
WATER	STEAM	MILD CHEMICALS***	OIL & GREASE	METAL CHIPS	HIGH HEAT (+250°F)	EXTREME COLD (-45°F)	ANIMAL FATS	NOISE REDUCTION	FLOOR PROTECTION	CUSHION LOAD			
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	65(±5)A	76-84	Performa® Rubber
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	70(±5)D	87	Moldon Nylon
✓**		✓	✓	✓	✓	✓	✓	✓	✓	✓	55(±5)D	90-91	Polyurethane HI-TECH™
✓**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	70(±5)D	91	Polyurethane (Round Tread)
✓**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	70 to 95(±5)A ¹	88-89	Triumph™
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	65(±5)D	96-97	Polyolefin
		✓	✓	✓	✓	✓	✓	✓	✓	✓	90(±5)D	100-101	Phenolic
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	70(±5)A	86	Moldon Rubber
✓**		✓	✓	✓	✓	✓	✓	✓	✓	✓	45(±5)D	92-93	Moldon Polyurethane
		✓	✓	✓	✓	✓	✓	✓	✓	✓	—	102-103	Cast Iron
		✓	✓	✓	✓	✓	✓	✓	✓	✓	—	104	Forged Steel
		✓	✓	✓	✓	✓	✓	✓	✓	✓	—	105	V-Groove
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	85(±5)D	99	Thermo
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	75(±5)A	98	ThermoTech®
✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	63(±5)D	94	Endura®
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	85(±5)D	95	Maxim®

Intermittent contact at room temperature only. *Consult factory for harsh chemicals.

¹Red crowned tread: 75 (±5) Shore A, Brown crowned tread 90 (±5) Shore A, Red round tread: 89 (±5) Shore A, Blue round tread 95 (±5) Shore A.

This chart is designed to provide the user with a general comparison of Colson wheel types under a variety of floor surfaces and operating conditions. For specific applications or unusual conditions, please consult factory.

Wheel Hardness Chart

DUROMETER SCALES

